UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2022

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For transition period from to Commission File Number 001-38847

SILK ROAD MEDICAL, INC.

(Exact name of registrant as specified in its charter)

Delaware State or other jurisdiction of incorporation or organization

20-8777622 (I.R.S. Employer Identification No.)

1213 Innsbruck Dr. Sunnyvale, CA 94089 (Address of registrant's principal executive offices) (Zip Code) Registrant's telephone number, including area code: (408) 720-9002

Securities registered pursuant to Section 12(b) of the Act

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.001 par value	SILK	Nasdaq Global Select Market

Securities registered pursuant to Section 12(g) of the Act:

None

None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes | No |
Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes | No |
Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 3 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to submit such filing requirements for the past 90 days. Yes | No |
Indicate by check mark whether the registrant has submitted electronically every interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes | No |
Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, and acceler

Smaller reporting company Non-accelerated filer Emerging growth company П

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If an emerging growth company, indicate by check mark whether the registrant included in the effectiveness of internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If an emerging growth company, indicate by check mark if the registrant has filed a report on an attention to its management's assessment of the effectiveness of internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If an emerging growth company, indicate by check mark whether the registrant has filed a report on an attention to its management's assessment of the effectiveness of internal control over financial accounting standards provided pursuant to Section 12(b) of the Sarbanes-Oxley Act (15 U.S.C 7262(b)) by the registrant has filed a report on an attention to its management's assessment of the effectiveness of internal control over financial accounting standards provided pursuant to Section 12(b) of the Act, indicate by check mark whether any of the registrant has filed a report on an attention to its management's assessment of the effectiveness of internal control over financial accounting the registrant has filed a report of the registrant has filed a report of the registrant has filed a report of the r

period pursuant to §240.10D-1(b). □
Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes □ No ⊠
Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes □ No ⊠

The aggregate market value of the registrant's common stock held by non-affiliates of the registrant was approximately \$1.3 billion as of June 30, 2022 based on the closing sale price of the registrant's common stock on the Nasdaq Global Select Market on such date. Solely for purposes of this disclosure, shares of common stock held by executive officers and directors of the registrant as of such date have been excluded in that such persons may be deemed affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of January 31, 2023, the number of outstanding shares of the registrant's common stock, par value \$0.001 per share, was 38,462,026.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the definitive proxy statement for our 2023 Annual Meeting of Stockholders, or the 2023 Proxy Statement, are incorporated by reference into Part III of this report where indicated. The 2023 Proxy Statement will be filed with the U.S. Securities and Exchange Commission within 120 days after the end of the fiscal year to which this report relates

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"Silk Road Medical," the "Silk Road Medical" logo, "TCAR," "ENROUTE," the "ENROUTE" logo, "ENHANCE," "Enflate" and our other registered or common law trade names, trademarks or service marks appearing in this Annual Report on Form 10-K are our property. Trade names, trademarks and service marks of other companies appearing in this Annual Report on Form 10-K are the property of their respective owners. We do not intend our use or display of other companies' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, these other companies unless otherwise stated. Solely for convenience, the trademarks and tradenames referred to in this Annual Report on Form 10-K appear without the ® and TM symbols, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the right of the applicable licensor to these trademarks and tradenames.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements concerning our business, operations and financial performance and condition, as well as our plans, objectives and expectations for our business, operations and financial performance and condition. Any statements contained herein that are not statements of historical facts may be deemed to be forward-looking statements within the meaning of the federal securities laws and are made pursuant to the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. In some cases, you can identify forward-looking statements by terminology such as "anticipate," "assume," "believe," "continue," "could," "due," "estimate," "expect," "goal," "intend," "may," "objective," "plan," "predict," "potential," "positioned," "seek," "should," "target," "will," "would" and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology, or the use of future dates.

These forward-looking statements include, but are not limited to, statements about:

- · our plans to conduct further clinical trials and anticipated enrollment, clinical sites, completion, results and timing thereof;
- our plans and expected timeline related to our products, including timing of commercial launch, or developing new products, to address additional indications or to obtain regulatory approvals or clearances or otherwise;
- . the expected use of our products by physicians, including market awareness, acceptance and adoption of our products and anticipated utilization of our products;
- our expectations regarding the number of procedures that will be performed with our products, the number of physicians we expect to train, and the number of our sales territories;
- · our ability to obtain, maintain and expand regulatory clearances for our current products and any new products we create;
- · the expected growth of our business and our organization;
- · our expectations regarding government and third-party payer coverage and reimbursement;
- · our ability to retain and recruit key personnel, including the continued expansion of our sales and marketing infrastructure;
- our ability to obtain an adequate supply of materials and components for our products from our third-party suppliers, most of whom are single-source suppliers;
- · our ability to manufacture sufficient quantities of our products with sufficient quality and the sufficiency of our current manufacturing capabilities;
- · our ability to obtain and maintain intellectual property protection for our products and our business;
- · our ability to expand our business into new geographic markets and the anticipated timing thereof, including in Japan and China;
- · our compliance with extensive Nasdaq and SEC requirements and government laws, rules and regulations both in the United States and internationally;
- our expectations regarding operating trends, future financial performance and expense management and our estimates of our future expenses, ongoing losses, future revenue, capital requirements and our need for, or ability to obtain, additional financing;
- our ability to identify and develop new and planned products and/or acquire new products;
- · our expectations regarding operating in a more normal health care operating environment together with the anticipated continued impact of COVID-19 on our business;

- our experience with inflationary and price pressures and increased labor costs and labor and staffing shortages caused by the COVID-19 pandemic or as a result of general
 macroeconomic factors:
- · developments and projections relating to our market opportunity and penetration, competitors or our industry; and
- our intended use of net proceeds from our public offerings.

We believe that it is important to communicate our future expectations to our investors. However, there may be events in the future that we are not able to accurately predict or control and that may cause our actual results to differ materially from the expectations we describe in our forward-looking statements. These forward-looking statements are based on management's current expectations, estimates, forecasts and projections about our business and the industry in which we operate and management's beliefs and assumptions and are not guarantees of future performance or development and involve known and unknown risks, uncertainties and other factors that are in some cases beyond our control. As a result, any or all of our forward-looking statements in this Annual Report on Form 10-K may turn out to be inaccurate. Factors that may cause actual results to differ materially from current expectations include, among other things, those listed under "Risk Factors" and elsewhere in this Annual Report on Form 10-K.

These forward-looking statements speak only as of the date of this Annual Report on Form 10-K. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this Annual Report on Form 10-K to conform these statements to actual results or to changes in our expectations. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur.

You should read this Annual Report on Form 10-K and the documents that we reference in this Annual Report on Form 10-K and have filed with the U.S. Securities and Exchange Commission, or the SEC, as exhibits to this Annual Report on Form 10-K with the understanding that our actual future results, levels of activity, performance and events and circumstances may be materially different from what we expect.

PART I

Item 1. Business

Overview

We are a medical device company focused on reducing the risk of stroke and its devastating impact. We believe a key to stroke prevention is minimally-invasive and technologically advanced intervention to safely and effectively treat carotid artery disease, one of the leading causes of stroke. Our business is focused on a relatively new approach for the treatment of carotid artery disease called transcarotid artery revascularization, or TCAR, which we seek to establish as the standard of care.

TCAR relies on two novel concepts - minimally-invasive direct carotid access in the neck and high-rate blood flow reversal during the procedure to protect the brain - and combines novel endovascular techniques with fundamental surgical principles. TCAR using our portfolio of products has been clinically demonstrated to reduce the upfront morbidity and mortality risks commonly associated with carotid endarterectomy while maintaining a reduction in long-term stroke risk. We are the first and only company to obtain FDA approvals, secure specific Medicare reimbursement coverage, and commercialize products engineered and indicated specifically for transcarotid use, in patients who require carotid revascularization and are at high risk for adverse events from carotid endarterectomy and who meet certain treatment criteria. In the second quarter of 2022, we announced FDA label and Medicare coverage expansions for the use of TCAR in standard surgical risk patients. As of December 31, 2022, more than 60,000 TCAR procedures have been performed globally, including more than 19,500 in the United States during 2022.

Carotid artery disease is the progressive buildup of plaque causing narrowing of the arteries in the front of the neck, which supply blood flow to the brain. Plaque can embolize, or break away from the arterial wall, and travel toward the brain and interrupt critical blood supply, leading to an ischemic stroke. Carotid artery disease is one of the leading causes of stroke, and stroke is one of the most catastrophic, debilitating, and costly conditions worldwide. We believe the best way to mitigate the mortality, morbidity and cost burden of stroke is to prevent strokes in the first place. Clinical evidence has demonstrated that with proper diagnosis and treatment, stroke due to carotid artery disease is mostly preventable. We believe there were approximately 4.4 million people with carotid artery disease in the United States in 2021, with an estimated 433,000 new diagnoses in 2021, and existing treatment options have substantial safety and effectiveness limitations.

The main goal of treating carotid artery disease is to prevent a future stroke. Unfortunately, one of the main complications of existing treatments for carotid artery disease is causing a stroke, along with other procedure-related adverse events. When intervention beyond medical management is warranted, the current standard of care for reduction in stroke risk is an invasive carotid revascularization procedure called carotid endarterectomy, or CEA. To perform a CEA, a physician makes a large incision in the neck, cuts the carotid artery open, and then removes the plaque from inside the vessel. CEA was first performed in 1953, and while generally effective at reducing stroke risk in the long term, large randomized clinical trials have demonstrated that CEA is associated with a significant risk of adverse events, including cranial nerve injury, heart attack, wound complications, and, in some cases, even stroke and death. These risks are elevated in certain patient populations.

To address the invasiveness of CEA, transfemoral carotid artery stenting, or CAS, was developed in the 1990s. The CAS procedure uses minimally-invasive catheters traveling from a puncture site in the groin to place a stent in the carotid artery in the neck to restrain the plaque and prevent embolization that could cause a stroke. While both CEA and CAS have been clinically demonstrated to reduce long-term stroke risk, randomized clinical trials and other studies have shown that CAS, relative to CEA, often results in an almost two-fold increase in stroke within 30 days following treatment, which we believe is due to inadequate protection of the brain. Accordingly, CEA has remained the standard of care. Therefore, we believe reducing the rate of morbidity and mortality of CEA is an unmet clinical need that continues to persist.

TCAR is a minimally-invasive procedure intended to address the morbidity of CEA and the 30-day stroke risk of CAS while maintaining a reduction in long-term stroke risk beyond the first 30 days. TCAR starts with a small incision in the neck slightly above the collarbone, otherwise known as transcarotid access, through which our ENROUTE® Transcarotid Stent System, or ENROUTE stent, is placed during a period of temporary high-rate blood flow reversal that is enabled by our ENROUTE® Transcarotid Neuroprotection System, or ENROUTE NPS. Blood flow reversal directs embolic debris that could cause a stroke away from the brain, while the stent braces the plaque and prevents embolization to afford a reduction in long-term stoke risk. We believe that by meeting the standard of brain protection and reduction in 30-day and long-term stroke risk afforded by CEA, while providing benefits commensurate with an endovascular, minimally-invasive approach, TCAR could become the preferred alternative for carotid revascularization. Additionally, we believe that as our

technology becomes more widely adopted, TCAR may become a compelling alternative for patients who are treated with medical management alone each year.

Based on the estimated 433,000 new carotid artery disease diagnoses that occurred in the United States in 2021, we believe a total annual U.S. market opportunity of approximately \$3.1 billion exists for our portfolio of TCAR products. There were approximately 169,000 carotid revascularization procedures performed in 2021, which we estimate to represent a market conversion opportunity of approximately \$1.2 billion. More than 19,500 TCAR procedures were performed in 2022 in the United States using our products, representing approximately 4% of annual diagnoses of carotid artery disease.

The safety, effectiveness and clinical advantages of TCAR have been demonstrated in multiple clinical trials, post-market studies and registries that have been published in peer-reviewed journals representing outcomes in more than 25,000 patients to date. The results of our U.S. pivotal trial, ROADSTER, reflect the lowest reported 30-day stroke rate for any prospective, multicenter clinical trial of carotid stenting of which we are aware. Our ROADSTER 2 post-approval study was completed in 2019 and showed a thirty-day stroke rate of 0.6% in the primary analysis population. Additionally, data on real-world outcomes of TCAR relative to CEA and CAS have continued to accrue through the ongoing TCAR Surveillance Project, or TSP, which is an ongoing open-ended registry sponsored by the Society for Vascular Surgery through the Vascular Quality Initiative, or VQI. In a VQI study published in the Journal of the American Medical Association in December 2019, a propensity matched analysis of 3,286 high surgical risk patients in each cohort showed in-hospital stroke or death was significantly lower for TCAR at 1.6% versus 3.1% for CAS, p < 0.001. The statistically significant difference favoring TCAR persisted through 30 days and 1 year. In a VQI study published in the *Annals of Surgery* in September 2020, a propensity matched analysis of 6,384 high surgical risk patients in each cohort demonstrated significant reduction in the risk of in-hospital myocardial infarction and cranial nerve injury after TCÁR compared to CEA (0.5% vs. 0.9%, p = 0.005; 0.4% vs. 2.7%, p < 0.001, respectively), with no differences in the rates of in-hospital stroke/death (1.6% TCAR and 1.6% CEA).

TCAR is reimbursed based on established current procedural technology, or CPT, codes and International Classification of Diseases, or ICD-10, codes related to carotid stenting that track to Medicare Severity Diagnosis Related Group, or MS-DRG classifications. In September 2016, the Centers for Medicare and Medicaid Services, or CMS, made coverage available for TCAR in symptomatic and asymptomatic patients at high risk for adverse events from CEA, or high surgical risk, treated at facilities participating in the Society for Vascular Surgery's TCAR Surveillance Project using FDA-cleared and approved transcarotid devices. Our ENROUTE NPS and stent are currently the only FDA-cleared and approved transcarotid devices. Carotid artery disease is most often a disease of the elderly and, as such, CMS is the primary payer for carotid revascularization procedures.

We began commercializing our products in the United States in late 2015. Our revenue increased to \$138.6 million for the year ended December 31, 2022 compared to \$101.5 million and \$75.2 million for the years ended December 31, 2021 and 2020, respectively, representing growth of 37% and 35%, respectively. Our net losses were \$55.0 million, \$49.8 million and \$47.4 million for the years ended December 31, 2022, 2021 and 2020, respectively. As of December 31, 2022 and 2021, our accumulated deficit was \$343.7 million and \$288.7 million, respectively

Our Product Portfolio

TCAR is enabled by our proprietary portfolio of TCAR products designed to provide direct access to the carotid artery, effective reduction in stroke risk throughout the procedure, and long-term restraint of carotid plaque. In addition to enabling the safety and effectiveness of TCAR, our proprietary products are specifically designed to enable a short learning curve, consistent ease of use and physician comfort. Our products are also currently the only devices cleared and approved by the FDA specifically for transcarotid use.

We recently expanded our product portfolio with the limited market release of our ENROUTE Enflate Transcarotid RX Balloon Dilation Catheter, or ENROUTE Enflate, in the fourth quarter of 2022. A full market release is planned in 2023. Today, our product portfolio consists of the following five single-use components

ENROUTE Transcarotid Neuroprotection System



Used to directly access the common carotid artery and initiate temporary blood flow reversal Allows for flow modulation enabling lesion imaging and patient tolerability Only FDA-cleared transcarotid neuroprotection system

ENROUTE Transcarotid Stent System



Self-expanding, self-tapering stent that conforms to patient Transcarotid delivery system improves the accuracy and the overall ergonomics of the TCAR procedure

Only FDA approved transcarotid stent system

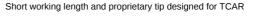
ENHANCE Transcarotid Peripheral Access Kit



ENROUTE 0.014" Guidewire

Main conduit for navigating and crossing the target lesion for delivery of interventional devices

ENROUTE Enflate Transcarotid RX Balloon



Specialty balloon designed for the TCAR procedure Short working length and size optimized for use in carotid anatomy Non-fluoro visual indicator that aligns the tip of the balloon with the tip of the arterial sheath

The ENROUTE NPS is cleared for transcarotid vascular access, introduction of diagnostic agents and therapeutic devices, and embolic protection during carotid artery angioplasty and stenting procedures for patients diagnosed with carotid artery stenosis and who have appropriate anatomy. The ENROUTE stent is approved for use in conjunction with the ENROUTE NPS for the treatment of patients at high and standard risk for adverse events from carotid endarterectomy, who require carotid revascularization and meet certain criteria.

Clinical Data

Dilation Catheter

The safety, effectiveness and clinical advantages of TCAR have been demonstrated in multiple clinical trials, post-market studies and registries that have been published in peer-reviewed journals representing outcomes in more than 25,000 patients to date. Our first-in-human trial, the PROOF Study, was initiated as a feasibility study to assess the safety and performance of the ENROUTE NPS and later was expanded to support CE marking of the ENROUTE NPS. Data from the PROOF Study were also used to support FDA approval of the investigational device exemption, or IDE, for the ROADSTER Study. Data from the pivotal cohort of the ROADSTER Study supported FDA 510(k) clearance of the ENROUTE NPS, and a subset of the data supported pre-market, or PMA, approval of the ENROUTE stent. We have completed a post-market approval study, ROADSTER 2, which was designed to evaluate the outcomes in TCAR procedures using the ENROUTE stent used in conjunction with the ENROUTE NPS in broader, "real-world" use among 692 patients that were enrolled. In May 2022, FDA granted approval for an expanded label indication of the ENROUTE stent allowing for treatment of patients at standard surgical risk, in addition to patients at high surgical risk. This approval was obtained by submitting a retrospective matched analysis of 5,066 standard risk TCAR patients with 15,198 CEA patients in a 1:3 ratio from VQI's TCAR Surveillance Project (TSP) and CEA registries, both sponsored by the Society for Vascular Surgery. Data on TCAR outcomes also continues to accrue through TSP, an ongoing real-world, open-ended registry. The VQI stated that close to 35,000 TCAR procedures have been submitted to the registry as of September 1, 2022.

Summary of Key Clinical Trials

Study Type	PROOF First in Human CE Marking DW-MRI Sub-Study	ROADSTER U.S. Pivotal IDE Study	ROADSTER 2 U.S. Post-Approval Study	ROADSTER 3 U.S. Post-Approval Study	TCAR Surveillance Project Real world observation
Patients	75 pivotal 56 DW-MRI Sub-Study	67 Lead-in 141 Pivotal 78 Continued Access 52 Stent Sub- Study	692	Up to 400	Open Ended
Profile	High Surgical Risk and Standard Surgical Risk	High Surgical Risk	High Surgical Risk	Standard Surgical Risk	High Surgical Risk and Standard Surgical Risk
Status	Complete	Complete	Complete	Enrolling	Ongoing - > 35,000 TCAR cases as of September 1, 2022, per VQI
Carotid Stent Systems Used	CE Marked Carotid Stents, including the Cordis Precise Stent	FDA Approved Carotid Stents, including the Cordis Precise Stent	ENROUTE Transcarotid Stent System	ENROUTE Transcarotid Stent System	ENROUTE Transcarotid Stent System

Summary of TCAR Clinical Trial Outcomes

	PROOF	Pooled ROADSTER		ROADSTER 2	
	Intention to Treat population	Intention to Treat population	Per-protocol	Intention to Treat population	Per-protocol
Stroke at 30 days		· ·			
All stroke	1.3 %	1.4 %	0.5 %	1.9 %	0.6 %
All stroke and death	1.3 %	2.3 %	1.5 %	2.3 %	0.8 %
Other adverse events at 30 days					
Myocardial infarction	0.0 %	1.4 %	1.0 %	0.9 %	0.9 %
Cranial Nerve Injury*	2.7 %	0.5 %	NR	1.40 %	NR
(Acute)					
Cranial Nerve Injury	2.7 %	0.0 %	NR	0.9 %**	NR
(persisting at 6 months)					
Procedural information					
Mean procedure time (mins)	NR	73.2	NR	74.8	74.6
Mean length of stay (days)	NR	1.7	NR	NR	1.6

^{*}Only tabulated for Intention to Treat population. **Evaluated at 90 days.

PROOF First-in-human Clinical Trial

Our first-in-human trial, the PROOF Study, was a single-arm trial conducted at one trial site in Europe from 2009 to 2012. The PROOF Study was initiated as a feasibility study to assess the safety and performance of the ENROUTE NPS in a limited number of patients, initially enrolling 10 patients. The PROOF Study was later expanded to 75 patients to collect the clinical data necessary to support the original CE marking of the ENROUTE NPS. The results from the PROOF Study demonstrated TCAR was technically feasible and resulted in a minor stroke incidence of 1.3% within 30 days (zero

major strokes), which was significantly lower than that reported for CAS in prior clinical trials. A sub-study of 56 patients who underwent pre- and post-procedure diffusion-weighted magnetic resonance image scanning, or DW-MRI, demonstrated only 18% of the sub-study population presented with ipsilateral new white lesions. This was comparable to CEA results in prior clinical trials and significantly less than that reported in prior CAS trials. Data from the PROOF Study were also used to support FDA approval of the IDE for the ROADSTER Study.

Pivotal ROADSTER Clinical Trial

Our pivotal trial, the ROADSTER Study, was a single-arm trial conducted at 17 sites across the United States and one site in Europe from 2012 to 2014. The design of the ROADSTER Study, which was used to support FDA 510(k) clearance of the ENROUTE NPS, was largely based upon predicate embolic prevention studies and followed the relevant FDA guidance published in 2008. In the pivotal phase, the ROADSTER study enrolled 141 patients that were classified as being at high surgical risk. The primary endpoint of the ROADSTER Study was a hierarchical composite of stroke, death or myocardial infarction within 30 days.

Among the intention-to-treat, or ITT, study population, which included patients treated despite major protocol deviations, the primary endpoint event rate at 30 days was 3.5%, comprised of two strokes, two deaths, and one myocardial infarction. Of note, in the per protocol, or PP, analysis, which included only patients who met all study eligibility criteria, the primary endpoint event rate was 2.9%, comprised of one stroke, two deaths, and one myocardial infarction. The data from the ITT analysis supported FDA 510(k) clearance of the ENROUTE NPS.

A continued access phase of the ROADSTER Study was conducted during the time that the 510(k) premarket notification for the ENROUTE NPS was under review by FDA. This phase enrolled an additional 78 patients with the same primary and secondary endpoints and similar results as the pivotal phase of the ROADSTER Study. The ENROUTE NPS was 510(k) cleared by the FDA in February 2015.

Following a pre-submission interaction with the FDA, the FDA permitted data from a sub-analysis of 52 patients in the ROADSTER Study who were treated with the Cordis Precise Pro RX Carotid Stent System to be used, in conjunction with existing data from Cordis on CAS clinical trials performed with the Cordis Precise Pro RX, to support our pre-market approval application for the ENROUTE stent. The ENROUTE and Precise stent systems share the same design for the stent implant itself, and differ only in the design of the delivery system. Based on this data, the PMA for the ENROUTE stent was approved in May 2015.

We also initiated a separate sub-study of patients treated on a PP basis in the ROADSTER pivotal and continued access cohorts to assess the longer-term rate of ipsilateral stroke beyond 30 days. This sub-analysis, which consisted of 164 patients including 112 from the pivotal phase and 52 from the continued access phase, provided insight into the ability of TCAR to limit stroke incidence in longer-term follow-up. At one-year follow-up, the ipsilateral stroke rate was 0.6% beyond 30 days.

ROADSTER 2 U.S. Post-Market Approval Study

The ROADSTER 2 Post Approval Study was a condition of PMA approval for the ENROUTE stent. The study evaluated the outcomes in TCAR using the ENROUTE stent in conjunction with the ENROUTE NPS in broader, "real world" use. Similar to the sub-analysis from the ROADSTER Study that led to PMA approval of the ENROUTE stent, the primary endpoint, was the rate of procedural success at 30 days in high surgical risk patients with a three-year minimum life expectancy in the PP study population.

The ROADSTER 2 study enrolled 692 patients at 42 sites, of which 632 patients were included in the PP analysis. Among the operating physicians in the study, 62% of the participating patients were treated by physicians who did not participate in the pivotal ROADSTER Study. Enrollment commenced in 2015 and was completed, along with the final 30-day follow-up assessments in 2019.

The primary endpoint of ROADSTER 2 was successfully met with a procedural success rate of 97.9%, which compared favorably to the rate of procedural success (98.1%) in the ROADSTER Sub-Study population. Data from a

subset of ROADSTER 2 subjects (n=155) were analyzed to assess the incidence of ipsilateral stroke from day 31 through day 365 post-procedure. The ipsilateral stroke rate at one-year follow-up was 0% beyond 30 days.

The Society for Vascular Surgery's TCAR Surveillance Project

The TCAR Surveillance Project, or TSP, was implemented in September 2016 as an initiative of the Society for Vascular Surgery Patient Safety Organization. The TCAR Surveillance Project is an ongoing, open-ended registry that was designed to monitor the safety and effectiveness of transcarotid stents placed directly into the carotid artery while reversing blood flow within the carotid artery. It is intended to compare TCAR with CEA in centers that participate in the Society for Vascular Surgery Vascular Quality Initiative, or VQI. The TCAR Surveillance Project was reviewed by the FDA and deemed to be a scientifically valid extension study of TCAR, thereby allowing CMS to provide coverage within the parameters of the existing National Coverage Determination. The Society for Vascular Surgery VQI is designed to improve the quality, safety, effectiveness and cost of vascular health care by collecting and exchanging information, and is available to all providers of vascular health care and their respective institutions participating in the registry. Because data from CAS and CEA procedures are also collected in their respective registries within the Society for Vascular Surgery VQI, comparisons of TCAR to CAS or CEA can also be made.

Eligible patients must meet the inclusion criteria specified for the TCAR Surveillance Project. This means patients must have had their TCAR procedure performed using any FDA-cleared transcarotid proximal embolic protection device utilizing flow reversal, such as our ENROUTE NPS, and any FDA-approved transcarotid stent, such as our ENROUTE stent. To date, the ENROUTE stent and the ENROUTE NPS are the only such devices cleared and approved by the FDA. Additionally, patients had to be at high surgical risk. Following FDA's approval expanding the indication for the ENROUTE stent to standard surgical risk patients, CMS announced expanded coverage for standard risk patients entered in TSP in June 2022. As a result, TCAR procedures performed for either high surgical risk or standard surgical risk patients who are entered into TSP are eligible for reimbursement by Medicare if the patients meet the additional requirements set forth above.

The Society for Vascular Surgery VQI has reported that 634 centers have contributed more than 35,000 TCAR procedures to the CAS VQI registry as of September 1, 2022. Over time, it is expected that physicians and academic researchers will continue to query the database and produce publications in peer review journals, and present data at medical conferences, regarding the safety and effectiveness of TCAR in real world use.

TCAR Surveillance Project: TCAR vs. CAS

In a study published in the *Journal of the American Medical Association* in December of 2019, TCAR was compared to CAS in a propensity score matched analysis with 3,286 pairs. TCAR was associated with a lower risk of in-hospital stroke or death (1.6% vs 3.1%; P < .001), stroke (1.3% vs 2.4%; P = .001), and death (0.4% vs 1.0%; P = .008). As expected with two minimally invasive procedures, there was no statistically significant difference in the risk of perioperative MI between the two cohorts (0.2% for TCAR vs 0.3% for TFCAS; P = .47). At 1 year using Kaplan-Meier life-table estimation, TCAR was associated with a lower risk of ipsilateral stroke or death (5.1% vs 9.6%; hazard ratio, 0.52 [95%Cl), 0.41 to 0.66]; P < .001). TFCAS was associated with more radiation (median fluoroscopy time, 5 minutes [interquartile range {IQR}, 3 to 7] vs 16 minutes [IQR, 11 to 23]; P < .001) and more contrast usage (median contrast used, 30 mL [IQR, 20 to 45] vs 80 mL [IQR, 55 to 122]; P < .001).

TCAR Surveillance Project: TCAR vs. CEA

In a study published in the *Annals of Surgery* in September of 2020, TCAR was compared to CEA in propensity score matched high surgical risk patients who underwent TCAR or CEA for carotid artery stenosis (2016-2019). Propensity scores were calculated based on baseline clinical variables and used to match patients in the two treatment groups (n=6,384 each). The primary endpoint was the combined outcome of perioperative stroke and/or death. No significant differences were observed between TCAR and CEA in terms of in-hospital stroke/death [TCAR,1.6% vs. CEA,1.6%, P=.945], stroke [1.4% vs. 1.4%, P=.881], or death [0.4% vs. 0.3%, P=.662]. Compared to CEA, TCAR was associated with lower rates of in-hospital myocardial infarction [0.5% vs. 0.9%, P=.005], cranial nerve injury [0.4% vs. 2.7%, P<.001], and post-procedural hypertension [13% vs.18.8%, P<.001]. They were also less likely to stay in the hospital for more than one day [26.4% vs. 30.1%, P<.001]. No significant interaction was observed between procedure and symptomatic status in predicting postoperative outcomes. At one year, the incidence of ipsilateral stroke or death was similar between the two groups [HR (95%CI): 1.09 (0.87-1.36), P=.44]. This propensity-score matched analysis demonstrated significant reduction in the risk of postoperative myocardial infarction and cranial nerve injury after TCAR compared to CEA, with no differences in the rates of stroke/death.

TCAR Surveillance Project: Learning Curve

In a study published in the *Journal of the American College of Surgeons* in January 2020, Kashyap, et al, examined the learning curve of TCAR performed by surgeons participating in the TCAR Surveillance Project. The authors reviewed 3,456 TCAR procedures performed by 417 unique practitioners at 178 centers. Patients were grouped into four levels based upon the physicians' experience with TCAR at the time of procedure: novice (1-5 cases), intermediate (6-20 cases), advanced (20-30 cases) and expert (>30 cases). Of the patients analyzed, 41% of patients were treated by novice physicians, 40% of patients were treated by intermediate physicians, 9% of patients were treated by advanced physicians and 10% of patients were treated by expert physicians. There was no significant difference in the baseline characteristics by surgeon case experience with three exceptions; expert physicians were more likely to treat patients with moderate or severe congestive heart failure, novice and intermediate physicians were more likely to treat patients with prior CEA or CAS, and advanced and expert physicians were more likely to treat patients with CMS medical high-risk criteria. There was a statistically significant reduction in operative time (novice 81.7 mins, expert 59.6 mins; p<.001) and flow reversal time (novice 12.2 mins, expert 9.7 mins; p<.001) over the four levels. There was a decrease in fluoroscopy time and contrast usage up to the advanced level. Bleeding complications were significantly less frequent in the advanced and expert groups of physicians. There was no difference in the incidence of cranial nerve injury across the groups of physicians. Expert physicians were more likely to use local anesthesia compared to the other three categories of physicians. There was no difference in the technical failure rate across the four categories of physicians. The rate of composite stroke, stroke alone and death did not differ between the categories. The authors noted that TCAR novices can achieve the same clinical outcomes as expert practitioners, while in comparison, CAS requires more than 50 cases to achieve proficiency.

Ongoing TCAR Studies

ROADSTER 3 U.S. Post-Market Approval Study

In May 2022, we announced FDA approval of a label expansion for the ENROUTE stent for use in standard surgical risk patients. In June 2022, we announced that CMS, through collaboration with the SVS's Patient Safety Organization and their Vascular Quality Initiative, or VQI, has expanded coverage for TCAR to include standard surgical risk patients within the VQI's TCAR Surveillance Project. As a condition of FDA approval for such label expansion, we are conducting a prospective, multi-center, single-arm post-approval study, ROADSTER 3, to evaluate on-label usage of the ENROUTE Stent and the ENROUTE NPS for the treatment of patients at standard risk for adverse events from carotid endarterectomy who require carotid revascularization and who are eligible for treatment with these devices. The targeted enrollment in ROADSTER 3 is a maximum of 400 patients treated per protocol across an estimated 30 to 60 U.S. sites. The primary endpoint is a hierarchical composite of major adverse events defined as any death, stroke or myocardial infarction within 30 days of the index procedure, plus ipsilateral stroke within 31 days to 365 days of the TCAR procedure.

Our Commercial Strategy

We believe vascular surgeons represent the specialty most frequently responsible for managing the care of and receiving referrals for patients with carotid artery disease and are skilled in endovascular procedures. Our sales, marketing, professional education and medical affairs efforts are focused on driving adoption and supporting their practice development by offering them an innovative, safe, effective and minimally-invasive alternative for treating carotid artery disease

We market and sell our products in the United States through a direct sales organization consisting of sales management, sales representatives, known as area managers, or AMs, and clinical support specialists, known as therapy development specialists, or TDSs. The AMs are typically complemented by one or more TDSs in each territory. Our sales professionals have substantial experience launching and establishing new disruptive therapies and converting open surgical procedures to minimally-invasive alternatives. We primarily market our products directly to vascular surgeons, their staffs, operating room managers and hospital administrators. We also market to other specialists with experience in CEA and/or CAS with the appropriate skill set for TCAR, including neurosurgeons, cardiothoracic surgeons and non-surgical interventionalists in radiology, neuroradiology and cardiology.

Our AMs are responsible for developing territory business plans, targeting and opening new accounts, promoting the benefits of TCAR and our products, and driving adoption and penetration of TCAR. In addition, they help physicians and their staff to build TCAR programs, drive certain referral initiatives, and provide resources to help with practice development, reimbursement and patient education. Together with the TDSs, they also support the training and proper use of our TCAR portfolio of products and provide clinically consultative support for patient selection, pre-procedure planning, procedure support, and post-procedure care. As we continue to grow the size of our U.S. sales organization,

with a focus on increasing adoption of TCAR by existing customers and expanding our current customer base, we expect to focus on adding a strategic mix of area managers and therapy development specialists.

Our highly specialized AMs and TDSs, along with other key employees, receive in-depth training and develop a thorough understanding of carotid artery disease, patient selection, imaging interpretation, procedure planning, reimbursement and regulatory policies to meaningfully support our customers and maintain compliance. Our extensive training and continuous education program consists of foundational training, procedure observation, and sales skills development. Our personnel are selected based on their focus on patient outcomes and delivering a positive customer experience in addition to their technical aptitude.

Additionally, we support our sales organization with marketing and market and practice development initiatives. We plan to continue to expand and enhance our marketing and analytics capabilities to support our growing commercial organization and customer base.

While our current commercial focus is on the U.S. market, in the fourth quarter of 2022, we received approval from the Japan Association for the Advancement of Medical Equipment for our ENROUTE NPS, and the ENROUTE stent. Our next steps include assessing the reimbursement process and our pathway and timeline to launch. We are also pursuing regulatory clearances in China. We do not currently sell our products in markets outside the United States.

Professional Education

We are focused on developing strong relationships with our customers and devote significant resources to training and educating physicians in the use of TCAR and our associated products. Our Office of Medical Affairs leads our physician education and training programs in addition to disseminating the scientific information and clinical data supporting TCAR. The Office of Medical Affairs also leads compliance activities.

Our practice is to require physicians to complete a training program before performing TCAR, which is also a regulatory requirement derived from the PMA approval of the ENROUTE stent. To facilitate training, we have developed a robust training course including clinical and procedural details as well as hands-on workshops designed to provide the highest potential for successful outcomes. We conduct physician training courses in large group, in-person formats as well as virtual and small group, socially distanced formats as needs have dictated during the COVID-19 pandemic. We also provide training through physician proctors on an as needed basis. As of December 31, 2022, we have trained and certified over 2,400 physicians in the United States.

Coverage and Reimbursement

Based on 2020 CAS procedure data from IBM® MarketScan® Inpatient View, we estimate that approximately 75% of carotid procedures are reimbursed by CMS, and the remaining approximately 25% are reimbursed by commercial and other payers. TCAR is currently covered by CMS in high surgical risk patients who are symptomatic with greater than or equal to 70% stenosis. As of September 2016, TCAR is also covered by CMS in the Society for Vascular Surgery Vascular Quality Initiative TCAR Surveillance Project (VQI TSP) for high surgical risk patients who are either symptomatic with greater than or equal to 50% stenosis or asymptomatic with greater than or equal to 80% stenosis. Effective May 31, 2022, CMS expanded coverage in the VQI TSP to include the standard surgical risk patient population.

On January 12, 2023 CMS accepted a formal request to reconsider NCD 20.7 to expand coverage of Percutaneous Transluminal Angioplasty, or PTA, and CAS with embolic protection. The scope of this reconsideration includes TCAR procedures. CMS expects to complete their analysis and publish their final decision in the fourth quarter of 2023.

TCAR, like CAS, is only reimbursed by Medicare as an inpatient procedure and therefore reimbursed to hospitals under the DRG system.

There are three key aspects of reimbursement in the United States: coding, coverage and payment.

Coding refers to distinct numeric and alphanumeric billing codes that are used by healthcare providers to report the provision of medical procedures and the use of supplies for specific patients to payers. CPT codes are published by the American Medical Association and are used to report medical services and procedures performed by or under the direction of physicians. Medicare pays physicians for services based on submission of a claim using one or more specific CPT codes. Physician payment for procedures may vary according to site of service. Hospitals are reimbursed for inpatient procedures based on Medicare Severity Diagnosis Related Group, or MS-DRG classifications derived from ICD-10-PCS codes that describe the patient's

diagnoses and procedure(s) performed during the hospital stay. MS-DRGs closely calibrate payment for groups of services based on the severity of a patient's illness. One single MS-DRG payment is intended to cover all hospital costs associated with treating an individual during his or her hospital stay, except for physician charges associated with performing medical procedures, which are reimbursed through CPT codes and payments.

- Payment refers to the amount paid to providers for specific procedures and supplies. Payment is generally determined by the specific CPT and billing code. In addition, there may be separate numeric codes, under which the billing code is classified, to establish a payment amount.
- Coverage refers to decisions made by individual payers as to whether or not to pay for a specific procedure and related supplies and if so, under what conditions, including specific diagnoses and clinical indications.

Coding for Physicians

In 2014, the Society for Vascular Surgery helped to guide an editorial change by the American Medical Association to CPT 37215 to be inclusive of TCAR. The Category I CPT code for TCAR, effective January 1, 2015, is CPT 37215: Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological supervision and interpretation; with distal embolic protection. Published CMS guidance confirms that reverse flow embolic protection systems, such as our ENROUTE NPS, qualify as distal embolic protection under this code. This code has a 90-day global period. Coverage and payment for CPT code 37215 is only available from CMS in the inpatient setting, subject to the terms of the National Coverage Determination Manual Section 20.7, and only available in facilities certified to have met CMS's minimum facility standards for performing carotid artery stenting, which include local credentialing requirements. Hospitals participating in the VQI are considered to meet CMS's minimum facility standards.

Coding for Hospitals

There are a number of appropriate ICD-10-CM diagnosis codes that describe occlusions and stenosis of carotid arteries for asymptomatic patients as well as cerebral infarction due to embolus and thrombus of carotid arteries for symptomatic patients, which establish medical necessity. As of October 1, 2020, the proper ICD-10-PCS procedure codes for TCAR includes a code for carotid stenting [e.g. 037(H/J/K/L)3(D/E/F/G)Z] and a code for extracorporeal reverse flow neuroprotection [e.g. X2(H/J) 336]. Based on the ICD 10 diagnosis and procedure codes, TCAR inpatient admissions are assigned to MS-DRG 034 when the patient presents with major complications or co-morbidities, or MCC, 035 when the patient presents with a complication or co-morbidity, or CC, or 036 for patients without complications or co-morbidities.

Payment for Physicians

The 2023 national average physician professional fee payment for CPT code 37215 is approximately \$983. We believe physicians feel this level of payment represents a reasonable amount for TCAR. CEA procedures are reimbursed under CPT code 35301, for which the 2023 national average physician professional fee payment is \$1,119.

Payment for Hospitals

The national unadjusted 2023 payment amounts for MS-DRGs 034, 035 and 036 are \$27,434, \$15,666 and \$12,901, respectively. Based on prior procedure volumes assigned to MS-DRGs 034, 035 and 036 are \$27,434, \$15,666 and \$12,901, respectively. DRGs, we estimate that the weighted average payment amount across MS-DRGs 034, 035 and 036 is \$15,849 in 2023. These MS DRG payments are intended to cover all hospital costs associated with treating an individual during his or her hospital stay, except for physician charges associated with performing medical procedures. We believe that facilities feel this level of payment represents a reasonable amount for the treatment of patients with TCAR. CEA procedures are reimbursed under MS-DRGs 037, 038 and 039. We expect the national unadjusted 2023 payment amounts for MS-DRGs 037, 038 and 039 to be \$23,137, \$11,219 and \$7,907, respectively. Based on prior procedure volumes, we estimate that the weighted average payment amount across these three Extracranial Procedure MS-DRGs to be \$10,596. The base payment amounts for MS-DRGs may vary greatly by individual acute-care hospital for several reasons including but not limited to geographic, teaching status, case-mix index, and use of electronic health record systems.

Coverage

Pursuant to the NCD 20.7 for PTA, TCAR is currently covered by CMS in high surgical risk patients who are symptomatic with greater than or equal to 70% stenosis. The VQI TSP is an FDA-approved extension study, and as such, as of September 2016, TCAR is also covered by CMS in the VQI TSP for high surgical risk patients who are either

symptomatic with greater than or equal to 50% stenosis or asymptomatic with greater than or equal to 80% stenosis. On May 31, 2022 CMS expanded coverage to include standard surgical risk patients under the VQI TSP. For billing purposes, facilities and providers can submit claims for the TCAR Surveillance Project using National Clinical Trial identifier NCT02850588

Patients at high risk for adverse events from CEA are defined as having significant comorbidities or anatomic risk factors and would be poor candidates for CEA. Symptoms of carotid artery stenosis include carotid transient ischemic attack, focal cerebral ischemia producing a nondisabling stroke, and transient monocular blindness. The determination that a patient is at high risk for adverse events from CEA and the patient's symptoms arising from carotid artery stenosis must be documented in the patient's medical records.

CMS has created a list of minimum standards modeled in part on professional society statements on competency. All facilities must at least meet CMS standards in order to receive coverage for CAS, inclusive of TCAR, for high surgical risk patients. Participation in the Society for Vascular Surgery's Vascular Quality Initiative can provide evidence of compliance to these standards to CMS. The ENROUTE NPS and the ENROUTE stent are also included in the CREST-2 Companion Registry, or C2R, but not in the CREST 2 randomized clinical trial itself. The objective of C2R is to promote the rapid initiation and completion of enrollment in the CREST-2 randomized clinical trial (clinicaltrials.gov ID NCT02089217). Patient eligibility in C2R includes standard surgical risk and high surgical risk patients with symptomatic or asymptomatic carotid artery disease. Patients will be followed for the occurrence of post-procedural complications. The primary safety and quality endpoint for C2R is the occurrence of any stroke or death within the 30-day period following the stenting procedure. The safety and quality results from C2R will guide selection of interventionists for participation in the CREST-2 randomized clinical trial. Enrollment into C2R began in 2015 and will continue until publication of the primary results of the randomized trial. Providers can bill CMS for TCAR patients enrolled in this registry using NCT02240862.

Research, Development and Clinical Programs

Our research and development activities encompass basic research, clinical research and product development. Our engineering team has mechanical engineering, project management, materials science, and prototyping expertise. In addition, our clinical research organization has trial design, project management, data management and other clinical study operational expertise.

Our research and development efforts are currently focused on improving and expanding our portfolio of TCAR products and their labeled indications for use to further improve and simplify the treatment experience for a broad base of patients and physicians. We have worked together with vascular surgeons and other physicians to develop our products. We believe our research and development capabilities, clinical and regulatory organizations and unique insights will enable us to continue to lead the TCAR category.

Our clinical research activities are currently focused on our feasibility study in acute ischemic stroke, NITE-1, as well as initiating clinical sites and enrolling patients in ROADSTER 3, our post-approval study for TCAR in standard surgical risk patients.

We also have a broad intellectual property platform addressing the transcarotid approach and, in the future, we intend to leverage our expertise to develop new products targeting market opportunities and disease states that could benefit from the physiologic and engineering advantages made possible by our transcarotid approach, including in the heart, aortic arch and brain.

For the fiscal years ended December 31, 2022, 2021 and 2020, our research, development and clinical expenses were \$36.4 million, \$27.1 million and \$21.3 million, respectively.

Seasonality

We expect our revenue to fluctuate from quarter-to-quarter due to a variety of factors, including seasonality. For example, in the first quarter, our results can be harmed by adverse weather and by resetting of annual patient healthcare insurance plan deductibles, both of which may cause patients to delay elective procedures. Holiday and summer vacations by physicians and/or their patients can also affect procedure volumes that in turn affect hospital ordering patterns. We have also seen procedure volumes moderate during major medical conferences when significant portions of our customer base are attending the conferences.

Competition

TCAR is a relatively new procedure category and as such the basis of competition for our products is with respect to alternative carotid revascularization procedures. We are positioning TCAR as an alternative to the existing procedures CEA and CAS, and therefore compete primarily with manufacturers of medical devices used in those procedures.

The major manufacturers of products, such as patches and shunts, used in connection with CEA include LeMaitre Vascular, Getinge / Maquet, Baxter, Terumo, Gore and Edwards. Many of these companies are large public companies or divisions of publicly-traded companies and have several competitive advantages, including established relationships with vascular surgeons who commonly perform the CEA procedure, significantly greater name recognition and significantly greater sales and marketing resources.

Companies with actively marketed FDA-approved stents and embolic protection devices for use with CAS procedures include Abbott, Medtronic, Boston Scientific, and Cordis. Other companies have approved devices not currently marketed in the United States, including Gore, Terumo, Contego Medical and InspireMD. Additionally, some companies have stents and other products in ongoing IDE or planned IDE trials in the US, including Terumo and InspireMD. Many of these companies have several competitive advantages including the following: more established sales and marketing programs and networks, larger portfolio of products, longer operating histories, established relationships with healthcare professionals and greater name recognition.

Some competitors market other endovascular products that can be used in CAS and TCAR, such as peripheral access kits, guidewires, balloons and sheaths. Such companies include but are not limited to Abbott, Boston Scientific, Cordis, Medtronic and Cook.

In addition to competing for market share for TCAR, we also compete against these companies for personnel, including qualified personnel that are necessary to grow our business.

We believe the principal competitive factors in our market include the following:

- Patient outcomes and adverse event rates:
- · Patient experience;
- · Acceptance by treating physicians and referral sources;
- · Physician learning curve;
- · Ease-of-use and reliability;
- · Patient recovery time and level of discomfort;
- Economic benefits and cost savings;
- · Availability of reimbursement; and
- Strength of clinical evidence.

We also compete against manufacturers of medications used for medical management of carotid artery disease, including aspirin and statins. Many such companies are large public companies or divisions of publicly-traded companies and have several competitive advantages including the following: established treatment patterns where drugs are generally first-line therapy and invasive procedures or surgery are considered later; established relationships with general practitioners who commonly prescribe such medications; significantly greater name recognition; and significantly greater sales and marketing resources, including direct-to-consumer advertising.

Intellectual Property

We actively seek to protect the intellectual property and proprietary technology that we believe is important to our business, which includes seeking and maintaining patents covering our technology and products, proprietary processes and any other inventions that are commercially or strategically important to the development of our business. We also rely

upon trademarks to build and maintain the integrity of our brand, and we seek to protect the confidentiality of trade secrets that may be important to the development of our business.

To protect our proprietary rights, we rely on a combination of trademark, copyright, patent, trade secret and other intellectual property laws, employment, confidentiality and invention assignment agreements, and protective contractual provisions with our employees, contractors, consultants, suppliers, partners and other third parties.

As of December 31, 2022, we owned 144 patents globally, of which 74 were issued U.S. patents and 70 were patents outside of the United States. Our patents expire between November 2024 and July 2039. Our material patents, their jurisdiction, expiration date and the product to which they relate, are listed in the table below:

Jurisdiction	Patent No.	Expiration Date	Related Product
US	8,002,728	12/2/2025	Transcarotid Neuroprotection System
US	8,343,089	6/22/2025	Transcarotid Neuroprotection System
			Transcarotid Stent System
US	8,157,760	9/3/2030	Transcarotid Neuroprotection System
US	8,784,355	8/7/2029	Transcarotid Neuroprotection System
US	8,740,834	3/6/2029	Transcarotid Neuroprotection System
US	9,011,364	4/10/2031	Transcarotid Neuroprotection System
US	9,833,555	10/26/2029	Transcarotid Neuroprotection System
US	10,238,853	5/16/2039	Transcarotid Neuroprotection System
Europe	2,173,425	7/18/2028	Transcarotid Neuroprotection System
France	2,173,425	7/18/2028	Transcarotid Neuroprotection System
Germany	2,173,425	7/18/2028	Transcarotid Neuroprotection System
Italy	2,173,425	7/18/2028	Transcarotid Neuroprotection System
Great Britain	2,173,425	7/18/2028	Transcarotid Neuroprotection System
Japan	5,290,290	7/18/2028	Transcarotid Neuroprotection System
Japan	5.693.661	7/18/2028	Transcarotid Neuroprotection System

As of December 31, 2022, we had 91 pending patent applications globally, including 47 in the United States and 44 outside the United States.

As of December 31, 2022, we had trademark registrations for "Silk Road Medical," the "Silk Road Medical" logo, "TCAR," "Enroute" and the "Enroute" logo and "Enhance" in the United States, and various other countries. Including these trademark registrations, our trademark portfolio contained 101 trademark registrations/applications.

We also seek to maintain certain intellectual property and proprietary know-how as trade secrets, and generally require our partners to execute non-disclosure agreements prior to any substantive discussions or disclosures of our technology or business plans. Our trade secrets include proprietary account analytics, user training methods, and operational processes. For more information, please see "Risk Factors—Risks Related to Intellectual Property."

Manufacturing and Supply

We currently manufacture the ENROUTE NPS at our facilities in Sunnyvale, California and Plymouth, Minnesota. These facilities provide an aggregate of approximately 35,000 square feet of space for our production and distribution operations, including manufacturing, quality control and storage. We believe our combined facilities will be sufficient to meet our ENROUTE NPS manufacturing needs for at least the next five years.

Our manufacturing and distribution operations are subject to regulatory requirements of the FDA's Quality System Regulation, or QSR, for medical devices sold in the United States, set forth in 21 CFR part 820. Our quality system is also certified as demonstrating compliance to ISO 13485:2016. In July 2022, we voluntarily requested the cancellation of our CE Mark certifications for business reasons but will continue to work with our Registrar to maintain ISO 13485:2016 certification. We may seek new CE Mark certifications in the future. We are also subject to applicable local regulations relating to the environment, waste management and health and safety matters, including measures relating to the release, use, storage, treatment, transportation, discharge, disposal, sale, labeling, collection, recycling, treatment and remediation of hazardous substances.

The FDA monitors compliance with the QSR through periodic inspections of our facilities. Our suppliers' facilities are also subject to FDA regulations, including the QSR, and unannounced inspections by the FDA and other similar regulatory

authorities. Our Registrar for ISO 13485:2016, British Standards Institute, or BSI, monitors compliance to the standard's requirements through annually scheduled audits of our manufacturing facilities.

We have been an FDA registered medical device establishment and California licensed medical device manufacturer since 2011. We moved to our current Sunnyvale, California facility in June 2018, which was registered with the FDA in June 2018 and was issued a California device manufacturing license in August 2018. An ISO 13485 audit was conducted in September 2018 and our California facility was recommended for certification. We completed FDA registration of our Plymouth, Minneapolis facility in May 2022 and are working toward its ISO 13485 certification.

The FDA conducted a total of five establishment inspections of our manufacturing facility in Sunnyvale, California in 2014, 2015, 2016 and 2020. A one-observation Form 483 Notice of Observation was issued in April 2015 relating to a transcription error in patient line listings and no additional follow up with the FDA was required. In February 2020, a one-observation Form 483 Notice of Observation was issued relating to the calibration method used for a specific type of measurement tool. In response, we initiated a Corrective and Preventive Action, or CAPA, and the Form 483 Notice of Observation was officially closed in June 2020. We believe that we are in compliance, in all material respects, with all applicable FDA requirements, including the QSR.

Since obtaining ISO 13485 certification in 2011, BSI has conducted scheduled surveillance audits annually, recertification audits every third year, and periodic audits since the initial certification period starting in 2011 for compliance with ISO 13485. The most recent recertification audit was conducted in November 2020, and no major non-conformities were identified. The most recent surveillance audit was conducted in September 2022, and no major non-conformities were identified. We are no longer subject to unannounced audits. The most recent unannounced audit was conducted in July 2014, and no major non-conformities were identified. We believe that we are in compliance, in all material respects, with all ISO 13485 requirements.

Manufacturing of the materials and components of the ENROUTE NPS are provided by approved suppliers, some of which are single-source suppliers of key components, sub-assemblies and materials. We purchase finished transcarotid access kit, guidewires, balloons and stents through contract manufacturers. Cordis is our contract manufacturer and currently the sole source supplier for the ENROUTE stent. We typically maintain several months' worth of ENROUTE stents in inventory, and we estimate that it would take up to two years or more to qualify a second source supplier for our ENROUTE stent. The suppliers for the ENROUTE NPS and our other product lines are evaluated, qualified and approved through a stringent supplier management program, which includes various evaluations, assessments, qualifications, testing and inspection to ensure the supplier can meet acceptable quality requirements. We ensure a strict change control policy with our key suppliers to ensure that no component or process changes are made without our prior approval.

Order quantities and lead times for components purchased from suppliers are based on our forecasts derived from historical demand and anticipated future demand. Lead times for components may vary depending on the size of the order, time required to fabricate and test the components, specific supplier requirements and current market demand for the components, sub-assemblies and materials. We typically stock several months of supply for components and raw materials to mitigate any supply delays or disruptions. Considering ongoing global supply chain constraints, we are working with all our suppliers on additional orders and forecasting to mitigate any potential supply issues. We perform assembly, testing, inspection and final product release activities for the ENROUTE NPS. Finished ENROUTE NPS devices are ethylene oxide sterilized at a qualified supplier.

Cordis License Agreement

In December 2010, we entered into a license agreement, or the Cordis License Agreement, with Cordis. Pursuant to the Cordis License Agreement, Cordis granted us a worldwide, non-exclusive, royalty-bearing license to certain of its intellectual property related to the PRECISE carotid stent, or the Licensed IP, for transcervical treatment of carotid artery disease with an intravascular stent for certain applications for accessing blood vessels through the neck and cervical area. Cordis may not license the Licensed IP in our licensed field of use to any other third party during the term of the Cordis License Agreement.

The Cordis License Agreement requires us to work exclusively with either Cordis or Confluent Medical Technologies, Inc. (f/k/a Nitinol Devices and Components, Inc.), or Confluent, for the development, manufacture and supply of the licensed products. If either Cordis or Confluent cannot continue to manufacture or supply the licensed products, we can seek a third-party manufacturer with the prior written consent of Cordis.

We have the right to assign or transfer the Cordis License Agreement to an entity that succeeds all or substantially all of our equity or assets. The Cordis License Agreement may be terminated by either party in the event of uncured material breach by the other party that remains uncured for 60 days (or 30 days for payment related breaches), or bankruptcy of the other party.

Cordis Supply Agreement

In October 2011, we entered into a supply agreement, or Cordis Supply Agreement, with Cordis and have since entered into four amendments in March and July 2012, April 2013 and April 2018. Pursuant to the Cordis Supply Agreement, Cordis has assisted in the development of a transcarotid stent delivery system according to our specifications with a PRECISE carotid stent implant, or ENROUTE stent, has supplied the ENROUTE stent through preclinical and clinical trials, and continues to supply the ENROUTE stent for our commercial sale. The Cordis Supply Agreement will continue in full force and effect until the earlier to occur of (i) termination of the Cordis License Agreement; (ii) our election if and when Cordis approves another manufacturer; (iii) mutual written termination; or (iv) termination pursuant to the terms therein. The Cordis Supply Agreement may be terminated by either party in the event of uncured material breach by the other party that remains uncured for 30 days, or bankruptcy of the other party.

Cordis has the exclusive right to manufacture and supply the current generation of the ENROUTE stent during the term of the Cordis Supply Agreement. If Cordis is not able to supply the ENROUTE stent, upon our election, Cordis shall permit Confluent or a third-party manufacturer to provide supply of the ENROUTE stent, provided that Cordis retains the right to manufacture and supply the ENROUTE stent to us to the extent it is able to do so.

Government Regulation

United States Food & Drug Administration

Our products and operations are subject to extensive and ongoing regulation by the FDA under the Federal Food, Drug, and Cosmetic Act, or FDCA, and its implementing regulations, as well as other federal and state regulatory bodies in the United States. The laws and regulations govern, among other things, product design and development, pre-clinical and clinical testing, manufacturing, packaging, labeling, storage, record keeping and reporting, clearance or approval, marketing, distribution, promotion, import and export, and post-marketing surveillance

Unless an exemption applies, each new or significantly modified medical device we seek to commercially distribute in the United States will require either a premarket notification to the FDA requesting permission for commercial distribution under Section 510(k) of the Federal Food, Drug and Cosmetic Act, or FDCA, also referred to as a 510(k) clearance, or approval from the FDA of a PMA application. Both the 510(k) clearance and PMA processes can be resource intensive, expensive, and lengthy, and require payment of significant user fees, unless an exemption is available.

Device Classification

Under the FDCA, medical devices are classified into one of three classes-Class I, Class II or Class III-depending on the degree of risk associated with each medical device and the extent of control needed to provide reasonable assurances with respect to safety and effectiveness.

Class I includes devices with the lowest risk to the patient and are those for which safety and effectiveness can be reasonably assured by adherence to a set of FDA regulations, referred to as the General Controls for Medical Devices, which require compliance with the applicable portions of the QSR, facility registration and product listing, reporting of adverse events and malfunctions, and appropriate, truthful and non-misleading labeling and promotional materials. Some Class I devices, also called Class I reserved devices, also require premarket clearance by the FDA through the 510(k) premarket notification process described below. Most Class I products are exempt from the premarket notification requirements.

Class II devices are those that are subject to the General Controls, and special controls as deemed necessary by the FDA to ensure the safety and effectiveness of the device. These special controls can include performance standards, patient registries, FDA guidance documents and post-market surveillance. Most Class II devices are subject to premarket review and clearance by the FDA. Premarket review and clearance by the FDA for Class II devices is accomplished through the 510(k) premarket notification process.

Class III devices include devices deemed by the FDA to pose the greatest risk such as life-supporting or life-sustaining devices, or implantable devices, in addition to those deemed novel and not substantially equivalent following

the 510(k) process. The safety and effectiveness of Class III devices cannot be reasonably assured solely by the General Controls and Special Controls described above. Therefore, these devices are subject to the PMA application process, which is generally more costly and time consuming than the 510(k) process. Through the PMA application process, the applicant must submit data and information demonstrating reasonable assurance of the safety and effectiveness of the device for its intended use to the FDA's satisfaction. Accordingly, a PMA application typically includes, but is not limited to, extensive technical information regarding device design and development, pre-clinical and clinical trial data, manufacturing information, labeling and financial disclosure information for the clinical investigators in device studies. The PMA application must provide valid scientific evidence that demonstrates to the FDA's satisfaction a reasonable assurance of the safety and effectiveness of the device for its intended use.

If a new medical device does not qualify for the 510(k) premarket notification process because no predicate device to which it is substantially equivalent can be identified, the device is automatically classified into Class III. The Food and Drug Administration Modernization Act of 1997 established a new route to market for low to moderate risk medical devices that are automatically placed into Class III due to the absence of a predicate device, called the "Request for Evaluation of Automatic Class III Designation," or the de novo classification process. This process allows a manufacturer whose novel device is automatically classified into Class III to request down-classification of its medical device into Class I or Class II on the basis that the device presents low or moderate risk, rather than requiring the submission and approval of a PMA. If the manufacturer seeks reclassification into Class II, the manufacturer must include a draft proposal for special controls that are necessary to provide a reasonable assurance of the safety and effectiveness of the medical device. The FDA may reject the reclassification petition if it identifies a legally marketed predicate device that would be appropriate for a \$10(k) or determines that the device is not low to moderate risk and requires PMA or that general controls would be inadequate to control the risks and special controls cannot be developed.

The Investigational Device Process

In the United States, absent certain limited exceptions, human clinical trials intended to support medical device clearance or approval require an IDE application. Some types of studies deemed to present "non-significant risk" are deemed to have an approved IDE once certain requirements are addressed and IRB approval is obtained. If the device presents a "significant risk" to human health, as defined by the FDA, the sponsor must submit an IDE application to the FDA and obtain IDE approval prior to commencing the human clinical trials. The IDE application must be supported by appropriate data, such as animal and laboratory testing results, showing that it is safe to test the device in humans and that the testing protocol is scientifically sound. The IDE application must be approved in advance by the FDA for a specified number of subjects. Generally, clinical trials for a significant risk device may begin once the IDE application is approved by the FDA and the study protocol and informed consent are approved by appropriate institutional review boards at the clinical trial sites. There can be no assurance that submission of an IDE will result in the ability to commence clinical trials, and although the FDA's approval of an IDE allows clinical testing to go forward for a specified number of subjects, it does not bind the FDA to accept the results of the trial as sufficient to prove the product's safety and effectiveness, even if the trial meets its intended success criteria

All clinical trials must be conducted in accordance with the FDA's IDE regulations that govern investigational device labeling, prohibit promotion and specify an array of recordkeeping, reporting and monitoring responsibilities of study sponsors and study investigators. Clinical trials must further comply with the FDA's good clinical practice regulations for institutional review board approval and for informed consent and other human subject protections. Required records and reports are subject to inspection by the FDA. The results of clinical testing may be unfavorable, or, even if the intended safety and effectiveness success criteria are achieved, may not be considered sufficient for the FDA to grant marketing approval or clearance of a product.

The 510(k) Clearance Process

Under the 510(k) process, the manufacturer must submit to the FDA a premarket notification, demonstrating that the device is "substantially equivalent," as defined in the statute, to a legally marketed predicate device.

A predicate device is a legally marketed device that is not subject to premarket approval, i.e., a device that was legally marketed prior to May 28, 1976 (pre-amendments device) and for which a PMA is not required, a device that has been reclassified from Class III to Class II or I, or a device that was previously found substantially equivalent through the 510(k) process. To be "substantially equivalent," the proposed device must have the same intended use as the predicate device, and either have the same technological characteristics as the predicate device or have different technological characteristics and not raise different questions of safety or effectiveness than the predicate device. Clinical data is sometimes required to support substantial equivalence.

After a 510(k) premarket notification is submitted, the FDA determines whether to accept it for substantive review. If it lacks necessary information for substantive review, the FDA will refuse to accept the 510(k) notification. If it is accepted for filing, the FDA begins a substantive review. The Medical Device User Fee Amendments sets a performance goal of 90 days for FDA review of a 510(k) submission, but the review time can be delayed if FDA raises questions or requests addition information during the review process. As a practical matter, clearance often takes longer, and clearance is never assured. Although many 510(k) premarket notifications are cleared without clinical data, the FDA may require further information, including clinical data, to make a determination regarding substantial equivalence, which may significantly prolong the review process. If the FDA agrees that the device is substantially equivalent, it will grant clearance to commercially market the device.

If the FDA determines that the device is not "substantially equivalent" to a predicate device, or if the device is automatically classified into Class III, the device sponsor must then fulfill the much more rigorous premarketing requirements of the PMA approval process, or seek reclassification of the device through the de novo process. A manufacturer can also submit a petition for direct de novo review if the manufacturer is unable to identify an appropriate predicate device and the new device or new use of the device presents a moderate or low risk.

After a device receives 510(k) clearance, any modification that could significantly affect its safety or effectiveness, or that would constitute a new or major change in its intended use, will require a new 510(k) clearance or, depending on the modification, could require a PMA application or de novo classification. The FDA requires each manufacturer to determine whether the proposed change requires submission of a 510(k) or a PMA in the first instance, but the FDA can review any such decision and disagree with a manufacturer's determination. Many minor modifications are accomplished by a letter-to-file in which the manufacture documents the change in an internal letter-to-file. The letter-to-file in lieu of submitting a new 510(k) to obtain clearance for such change. The FDA can always review these letters to file in an inspection. If the FDA disagrees with a manufacturer's determination regarding whether a new premarket submission is required for the modification of an existing device, the FDA can require the manufacturer to cease marketing and/or recall the modified device until 510(k) clearance or approval of a PMA application is obtained.

More recently, in September 2019, the FDA finalized guidance describing an optional "safety and performance based" premarket review pathway for manufacturers of "certain, well-understood device types" to demonstrate substantial equivalence under the 510(k) clearance pathway by showing that such device meets objective safety and performance criteria established by the FDA, thereby obviating the need for manufacturers to compare the safety and performance of their medical devices to specific predicate devices in the clearance process. The FDA intends to develop and maintain a list device types appropriate for the "safety and performance based" pathway and will continue to develop product-specific guidance documents that identify the performance criteria for each such device type, as well as the testing methods recommended in the guidance documents, where feasible.

The PMA Approval Process

Following receipt of a PMA application, the FDA conducts an administrative review to determine whether the application is sufficiently complete to permit a substantive review. If it is not, the agency will refuse to file the PMA. If it is, the FDA will accept the application for filing and begin the review. The FDA, by statute and by regulation, has 180 days to review a filed PMA application, although the review of an application more often occurs over a significantly longer period of time. During this review period, the FDA may request additional information clarification of information already provided, and the FDA may issue a major deficiency letter to the applicant, requesting the applicant's response to deficiencies communicated by the FDA. The FDA considers a PMA or PMA supplement to have been voluntarily withdrawn if an applicant fails to respond to an FDA request for information (e.g., major deficiency letter) within a total of 360 days. Before approving or denying a PMA, an FDA advisory committee may review the PMA at a public meeting and provide the FDA with the committee's recommendation on whether the FDA should approve the submission, approve it with specific conditions, or not approve it. The FDA is not bound by the recommendations of an advisory committee, but it considers such recommendations carefully when making decisions.

Prior to approval of a PMA, the FDA may conduct inspections of the clinical trial data and clinical trial sites, as well as inspections of the manufacturing facility and processes. Overall, the FDA review of a PMA application generally takes between one and three years, but may take significantly longer. The FDA can delay, limit or deny approval of a PMA application for many reasons, including:

- · The device may not be shown safe or effective to the FDA's satisfaction;
- · The data from pre-clinical studies and/or clinical trials may be found unreliable or insufficient to support approval;

- · The manufacturing process or facilities may not meet applicable requirements; and
- Changes in FDA approval policies or adoption of new regulations may require additional data.

If the FDA evaluation of a PMA is favorable, the FDA will issue either an approval letter, or an approvable letter, the latter of which usually contains a number of conditions that must be met in order to secure final approval of the PMA. When and if those conditions have been fulfilled to the satisfaction of the FDA, the agency will issue a PMA approval letter authorizing commercial marketing of the device, subject to the conditions of approval and the limitations established in the approval letter. If the FDA's evaluation of a PMA application or manufacturing facilities is not favorable, the FDA will deny approval of the PMA or issue a not approvable letter. The FDA also may determine that additional tests or clinical trials are necessary, in which case the PMA approval may be delayed for several months or years while the trials are conducted and data is submitted in an amendment to the PMA, or the PMA is withdrawn and resubmitted when the data are available. The PMA process can be expensive, uncertain and lengthy and a number of devices for which the FDA approval has been sought by other companies have never been approved by the FDA for marketing.

New PMA applications or PMA supplements are required for modification to the manufacturing process, equipment or facility, quality control procedures, sterilization, packaging, expiration date, labeling, device specifications, ingredients, materials or design of a device that has been approved through the PMA process. PMA supplements often require submission of the same type of information as an initial PMA application, except that the supplement is limited to information needed to support any changes from the device covered by the approved PMA application and may or may not require as extensive technical or clinical data or the convening of an advisory panel, depending on the nature of the proposed change.

In approving a PMA application, as a condition of approval, the FDA may also require some form of post-approval study or post-market surveillance, whereby the applicant conducts a follow-up study or follows certain patient groups for a number of years and makes periodic reports to the FDA on the clinical status of those patients when necessary to protect the public health or to provide additional or longer term safety and effectiveness data for the device. The FDA may also require post-market surveillance for certain devices cleared under a \$10(k) notification, such as implants or life-supporting or life-sustaining devices used outside a device user facility. The FDA may also approve a PMA application with other post-approval conditions intended to ensure the safety and effectiveness of the device, such as, among other things, restrictions on labeling, promotion, sale, distribution and use.

Japan Pharmaceuticals and Medical Devices Agency

Japan maintains a regulatory framework, similar to that described for the United States, under its Pharmaceutical and Medical Device Act, or PMD Act. The PMD Act covers regulations on pharmaceuticals, medical devices, and cosmetics and is governed by the Ministry of Health, Labor, and Welfare, or MHLW, which has the authority to (1) issue marketing licenses, (2) issue Marketing Authorization Holder licenses, and (3) issue Foreign Manufacturer Registration, or FMR, licenses, among its other responsibilities in policies and administrative measures. Within the MHLW, the Pharmaceuticals and Medical Devices Agency, or PMDA, performs the technical management and review of medical devices including, but not limited to, (1) review, examination, analysis, and approval recommendations, (2) Quality Management Systems, Good Laboratory Practice, and Good Clinical Practice inspections, and (3) collection and analysis of Post Market Surveillance data.

Our portfolio in Japan is subject to the PMD Act regulatory framework. Like the FDCA regulatory framework, medical devices must be classified into one of four classes - Class I, Class II, Class III, or Class IV - depending on the degree of risk associated with each medical device and the extent of control needed to provide reasonable assurances with respect to safety and effectiveness. Our devices are classified as Class IV. Specially Controlled Medical Devices, with a regulatory pathway that requires MHLW approval (Shonin pathway).

Per the Shonin regulatory pathway, the PMDA may conduct audits to verify compliance with Good Clinical Practice, Documentation Reliability, and Quality Management System standards and/or regulations, in addition to inspections of the manufacturing facility and processes. Often, in the case of novel device approvals, the PMDA may require some form of post-approval study or post-market surveillance, whereby the applicant conducts a follow-up study or follows certain patient groups for a number of years and makes periodic reports to the PMDA on the clinical status of those patients when necessary to protect the public health or to provide additional or longer term safety and effectiveness data for the device.

There are several additional pre-requisites that are required of medical device manufacturers to obtain approval for market authorization in Japan. These include the appointment of a Marketing Authorization Holder in Japan and the acquisition of an FMR. Only a Marketing Authorization Holder, or MAH, a Japanese domestic medical device

manufacturer, or a Designated Marketing Authorization Holder, or DMAH, a designee by an overseas medical device manufacturer, may import and sell medical products to the Japanese market. Additional duties of the MAH/DMAH include, but may not be limited to, the following:

- Facilitating PMDA product registration, managing product license modifications, and maintaining product approvals;
- · Managing product quality and safety to ensure that manufacturing sites comply with Japan's Quality Management System requirements;
- · Managing product storage in the Japanese market;
- Administering product release to distributors in the Japanese market; and
- Managing post-market surveillance in the Japanese market.

Upon recommendation of approval from PMDA, MHLW may then issue the applicant a license for the product. This product license does not have an expiration date, however, the FMR and QMS conformity certificate expires every five years and requires renewal to keep the product in compliance on the Japanese market.

Pervasive and Continuing Regulation

After a device is placed on the market, numerous regulatory requirements continue to apply. These include:

- The FDA and PMDA QSR, which require manufacturers, including their suppliers, to follow stringent design, testing, control, documentation and other quality assurance procedures during all aspects of the manufacturing process;
- · Labeling regulations and FDA prohibitions against the promotion of products for uncleared, unapproved or off-label uses;
- Medical device reporting, or MDR, regulations, which require that manufacturers report to the FDA and/or PMDA if their device may have caused or contributed to a death or serious injury or malfunctioned in a way that would likely cause or contribute to a death or serious injury if the malfunction were to recur;
- Medical device recalls, which require that manufacturers report to the FDA and PMDA any recall of a medical device, provided the recall was initiated to either reduce a risk to health posed by the device, or to remedy a violation of the FDCA or PMD Act caused by the device that may present a risk to health; and
- Post-market surveillance regulations, which apply when necessary to protect the public health or to provide additional safety and effectiveness data for the device.

We have registered with the FDA as a medical device manufacturer and a specification developer and have obtained a manufacturing license from the California Department of Public Health, or CDPH. The FDA and CDPH have broad post-market and regulatory enforcement powers. We are subject to unannounced inspections by the FDA and the Food and Drug Branch of CDPH to determine our compliance with the QSR and other regulations, and these inspections may include the manufacturing facilities of our suppliers. Additionally, our Registrar, BSI, regularly inspects our manufacturing, design and operational facilities to ensure ongoing ISO 13485 compliance.

We maintain a Foreign Manufacturer Registration with Japan's MHLW which requires assessment of the quality system by PMDA on an ongoing basis. We also maintain a DMAH in the Japanese market that has been appropriately recognized by MHLW, which oversees quality management and operations in the Japanese market for our products licensed in Japan.

Failure to comply with applicable regulatory requirements can result in enforcement action by the FDA or PMDA, which may include any of the following sanctions:

- · Warning letters, fines, injunctions, consent decrees and civil penalties;
- · Repair, replacement, refunds, recall or seizure of our products;

- · Operating restrictions, partial suspension or total shutdown of production;
- Refusing our requests for submissions, including 510(k) clearance or premarket approval of new products, new intended uses or modifications to existing products, or license modifications:
- · Withdrawing 510(k) clearance or premarket approvals that have already been granted; and
- · Criminal prosecution

Compliance

Our compliance organization is designed to support our growing organization through an effective Corporate Compliance Program based on our legal and regulatory environment. Our compliance and ethics programs support our key business objectives, identify legal and ethical behavior boundaries through our code of conduct, and establish a system to inform leadership. Primary responsibilities of our compliance organization are as follows:

- Healthcare compliance program development and implementation;
- · Existing program evaluation through risk assessment and internal audits;
- · Compliance issue investigation and remediation;
- · Corporate compliance training and education; and
- · HIPAA privacy training.

Health Insurance Portability and Accountability Act

The Health Insurance Portability and Accountability Act of 1996, or HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, or HITECH, established federal protection for the privacy and security of health information. Under HIPAA, the Department of Health and Human Services, or HHS, has issued regulations to protect the privacy and security of protected health information used or disclosed by "Covered Entities," including healthcare providers and their Business Associates. HIPAA also regulates standardization of data content, codes and formats used in healthcare transactions and standardization of identifiers for health plans and providers. The privacy regulations protect medical records and other protected health information by limiting their use and release, giving patients the right to access their medical records and limiting most disclosures of health information to the minimum amount necessary to accomplish an intended purpose. The HIPAA security standards require the adoption of administrative, physical, and technical safeguards and the adoption of written security policies and procedures. HIPAA requires Covered Entities to execute Business Associate Agreements with their Business Associates and subcontractors, who provide services to Covered Entities and who need access to protected health information. In addition, companies that would not otherwise be subject to HIPAA may become contractually obligated to follow HIPAA requirements through agreements with Covered Entities and Business Associates, and some of our customers may require us to agree to these provisions.

In addition, HIPAA and other federal privacy regulations, such as Section 5 of the Federal Trade Commission Act, there are a number of state laws regarding the privacy and security of health information and personal data that apply to us. The compliance requirements of these laws, including additional breach reporting requirements, and the penalties for violation vary widely, and new privacy and security laws in this area are evolving. Requirements of these laws and penalties for violations vary widely.

If we or our operations are found to be in violation of HIPAA, HITECH, or their implementing regulations, we may be subject to penalties, including civil and criminal penalties, fines, and exclusion from participation in federal or state healthcare programs, and the curtailment or restructuring of our operations. HITECH increased the civil and criminal penalties that may be imposed against Covered Entities, their Business Associates and possibly other persons, and gave state attorneys general new authority to file civil actions for damages or injunctions in federal courts to enforce the federal HIPAA laws and seek attorney's fees and costs associated with pursuing federal civil actions.

U.S. Federal, State and Foreign Fraud and Abuse Laws

The federal and state governments have enacted, and actively enforce, a number of laws to address fraud and abuse in federal healthcare programs. Our business is subject to compliance with these laws.

Anti-Kickback Statutes

The federal Anti-Kickback Statute prohibits persons from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual, or the furnishing or arranging for a good or service, for which payment may be made under a federal healthcare program, such as Medicare or Medicaid. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it to have committed a violation.

The definition of "remuneration" has been broadly interpreted to include anything of value, including, for example, gifts, certain discounts, the furnishing of free supplies, equipment or services, credit arrangements, payment of cash and waivers of payments. Several courts have interpreted the statute's intent requirement to mean that if any one purpose of an arrangement involving remuneration is to induce referrals of federal healthcare covered businesses, the statute has been violated. Violations of the federal Anti-Kickback Statute may result in civil monetary penalties per violation, plus up to three times the remuneration involved. Civil penalties for such conduct can further be assessed under the federal False Claims Act. Violations can also result in criminal penalties, including criminal fines and imprisonment. Similarly, violations can result in exclusion from participation in government healthcare programs, including Medicare and Medicaid. In addition, some kickback allegations have been claimed to violate the Federal False Claims Act.

The Office of Inspector General, or OIG, of the HHS has issued a series of regulations known as "safe harbors." These safe harbors set forth provisions that, if all their applicable requirements are met, will assure healthcare providers and other parties that they will not be prosecuted under the Anti-Kickback Statute. The failure of a transaction or arrangement to fit precisely within one or more safe harbors does not necessarily mean that it is per se illegal or that prosecution will be pursued. However, conduct and business arrangements that do not fully satisfy an applicable safe harbor may result in increased scrutiny by government enforcement authorities such as OIG.

Many states have adopted laws similar to the Anti-Kickback Statute. Some of these state prohibitions apply to referral of recipients for healthcare products or services reimbursed by any source, not only government healthcare programs, and may apply to payments made directly by the patient.

Government officials have focused their enforcement efforts on the marketing of healthcare services and products, among other activities, and recently have brought cases against companies, and certain individual sales, marketing and executive personnel, for allegedly offering unlawful inducements to potential or existing customers in an attempt to procure their business.

Federal False Claims Act

The federal False Claims Act, or FCA, imposes liability on any person or entity that, among other things, knowingly presents, or causes to be presented, a false or fraudulent claim for payment by a federal healthcare program. The *qui tam* provisions of the FCA allow a private individual to bring actions on behalf of the federal government alleging that the defendant has violated the FCA and to share in any monetary recovery. In addition, various states have enacted false claims laws analogous to the FCA, and many of these state laws apply where a claim is submitted to any third-party payer and not only a federal healthcare program.

When an entity is determined to have violated the FCA, it may be required to pay up to three times the actual damages sustained by the government, plus civil fines and penalties for each false claim, subject to adjustment for inflation. As part of any settlement, the government may require the entity to enter into a corporate integrity agreement, which imposes certain compliance, certification and reporting obligations. There are many potential bases for liability under the FCA. Liability arises, primarily, when an entity knowingly submits, or causes another to submit, a false claim for reimbursement to the federal government. The federal government has used the FCA to assert liability on the basis of kickbacks, or in instances in which manufacturers have provided billing or coding advice to providers that the government considered to be inaccurate. In these cases, the manufacturer faces liability for "causing" a false claim. In addition, the federal government has prosecuted companies under the FCA in connection with off-label promotion of products. Our activities relating to the reporting of discount and rebate information and other information affecting federal, state and third-party reimbursement of our products and the sale and marketing of our products may be subject to scrutiny under these laws.

Civil Monetary Penalties

The Civil Monetary Penalty Act of 1981 imposes penalties against any person or entity that, among other things, is determined to have presented or caused to be presented a claim to a federal healthcare program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent, or offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier.

Open Payments

The Physician Payments Sunshine Act, known as "Open Payments" and enacted as part of the Affordable Care Act, requires applicable manufacturers of covered drugs, devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children's Health Insurance Program, with specific exceptions, to annually report to CMS information regarding certain payments and other transfers of value to physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain non-physician healthcare professionals (such as physician assistants and nurse practitioners, among others), and teaching hospitals, as well as information regarding ownership and investment interests held by physicians and their immediate family members. Failure to submit required information on time may result in civil monetary penalties with additional amounts for knowingly failing to submit payment information. We are subject to Open Payments and the information we disclose may lead to greater scrutiny, which may result in modifications to established practices and additional costs. Additionally, similar reporting requirements have also been enacted on the state level domestically, and an increasing number of countries worldwide either have adopted or are considering similar laws requiring transparency of interactions with healthcare professionals.

Foreign Corrupt Practices Act

The Foreign Corrupt Practices Act, or FCPA, prohibits any U.S. individual or business from paying, offering, or authorizing payment or offering of anything of value, directly or indirectly, to any foreign official, political party or candidate for the purpose of influencing any act or decision of the foreign entity in order to assist the individual or business in obtaining or retaining business. The FCPA also obligates companies whose securities are listed in the United States to comply with accounting provisions requiring us to maintain books and records that accurately and fairly reflect all transactions of the corporation, including international subsidiaries, if any, and to devise and maintain an adequate system of internal accounting controls for internal operations.

International Laws

In Europe, various countries have adopted anti-bribery laws providing for severe consequences in the form of criminal penalties and significant fines for individuals or companies committing a bribery offense. Violations of these anti-bribery laws, or allegations of such violations, could have a negative impact on our business, results of operations and reputation.

For instance, in the United Kingdom, under the U.K. Bribery Act 2010, a bribery occurs when a person offers, gives or promises to give a financial or other advantage to induce or reward another individual to improperly perform certain functions or activities, including any function of a public nature. Bribery of foreign public officials also falls within the scope of the U.K. Bribery Act 2010. An individual found in violation of the U.K. Bribery Act 2010, faces imprisonment of up to ten years. In addition, the individual can be subject to an unlimited fine, as can commercial organizations for failure to prevent bribery.

There are also international privacy laws that impose restrictions on the access, use, and disclosure of health information. All of these laws may impact our business. Our failure to comply with these privacy laws or significant changes in the laws restricting our ability to obtain required patient information could significantly impact our business and our future business plans.

U.S. Centers for Medicare and Medicaid Services

Medicare is a federal program administered by the U.S. Centers for Medicare and Medicaid Services, or CMS, through fiscal intermediaries and carriers. Available to individuals age 65 or over, and certain other individuals, the Medicare program provides, among other things, healthcare benefits that cover, within prescribed limits, the major costs of most medically necessary care for such individuals, subject to certain deductibles and copayments.

CMS has established guidelines for the coverage and reimbursement of certain products and procedures by Medicare. In general, in order to be reimbursed by Medicare, a healthcare procedure furnished to a Medicare beneficiary must be reasonable and necessary for the diagnosis or treatment of an illness or injury, or to improve the functioning of a malformed body part. The methodology for determining coverage status and the amount of Medicare reimbursement varies based upon, among other factors, the setting in which a Medicare beneficiary received healthcare products and services. Any changes in federal legislation, regulations and policy affecting CMS coverage and reimbursement relative to the procedure using our products could have a material effect on our performance.

CMS also administers the Medicaid program, a cooperative federal/state program that provides medical assistance benefits to qualifying low income and medically needy persons. State participation in Medicaid is optional, and each state is given discretion in developing and administering its own Medicaid program, subject to certain federal requirements pertaining to payment levels, eligibility criteria and minimum categories of services. The coverage, method and level of reimbursement vary from state to state and is subject to each state's budget restraints. Changes to the availability of coverage, method or level of reimbursement for TCAR may affect future revenue negatively if reimbursement amounts are decreased or discontinued.

All CMS programs are subject to statutory and regulatory changes, retroactive and prospective rate adjustments, administrative rulings, interpretations of policy, intermediary determinations, and government funding restrictions, all of which may materially increase or decrease the rate of program payments to healthcare facilities and other healthcare providers, including those paid for TCAR.

United States Health Reform

Changes in healthcare policy could increase our costs and subject us to additional regulatory requirements that may interrupt commercialization of our current and future solutions. Changes in healthcare policy could increase our costs, decrease our revenue and impact sales of and reimbursement for our current and future products. The ACA substantially changes the way healthcare is financed by both governmental and private insurers, and significantly impacts our industry. The United States and some foreign jurisdictions are considering or have enacted a number of legislative and regulatory proposals to change the healthcare system in ways that could affect our ability to sell our products profitably. Among policy makers and payers in the United States and elsewhere, there is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality or expanding access. Current and future legislative proposals to further reform healthcare or reduce healthcare costs may limit coverage of or lower reimbursement for the procedures associated with the use of our products. The cost containment measures that payers and providers are instituting and the effect of any healthcare reform initiative implemented in the future could impact our revenue from the sale of our products.

The implementation of the Affordable Care Act in the United States, for example, has changed healthcare financing and delivery by both governmental and private insurers substantially, and affected medical device manufacturers significantly. The Affordable Care Act imposed, among other things, a 2.3% federal excise tax, which was permanently repealed for medical device sales, effective after December 31, 2019. The Affordable Care Act also provided incentives to programs that increase the federal government's comparative effectiveness research, and implemented payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians and other providers to improve the coordination, quality and efficiency of certain healthcare services through bundled payment models. Additionally, the Affordable Care Act has expanded eligibility criteria for Medicaid programs and created a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in, and conduct comparative clinical effectiveness research, along with funding for such research. We do not yet know the full impact that the Affordable Care Act will have on our business. There have been judicial and Congressional challenges to certain aspects of the Affordable Care Act, and we expect additional challenges and amendments in the future. It is unclear how efforts to repeal and replace the ACA will impact the healthcare industry or our business operations.

In addition, other legislative changes have been proposed and adopted since the Affordable Care Act was enacted. For example, the Budget Control Act of 2011, among other things, included reductions to CMS payments to providers of 2% per fiscal year, which went into effect on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2031, with the exception of a temporary suspension implemented under various COVID-19 relief legislation from May 1, 2020 through March 31, 2022. Under current legislation, the actual reduction in Medicare payments can vary from 1% in 2022 to up to 4% in the final fiscal year of this sequester. Additionally, the American Taxpayer Relief Act of 2012, among other things, reduced CMS payments to several providers, including hospitals, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

We believe that there will continue to be proposals by legislators at both the federal and state levels, regulators and third-party payers to reduce costs while expanding individual healthcare benefits. Certain of these changes could impose additional limitations on the rates we will be able to charge for our current and future products or the amounts of reimbursement available for our current and future products from governmental agencies or third-party payers. Current and future healthcare reform legislation and policies could have a material adverse effect on our business and financial condition.

Human Capital

Our mission is "To help deliver brighter patient outcomes. One procedure at a time." We recognize that our employees are key to our ability to achieve our mission and believe our employees have and will continue to be a primary reason for our growth and success.

Recognizing the importance of our human capital, our board of directors, through the compensation committee, retains direct oversight of our human capital and oversees and reviews our culture and policies and strategies related to human capital management, including with respect to diversity and inclusion initiatives, pay equity, talent, recruitment and development, performance management and employee engagement.

We are a certified Great Place to Work, which certification is the only recognition based entirely on what employees report about their workplace experience. 92% of our employees say Silk Road Medical is a great place to work, compared to 57% of employees at a typical U.S.-based company according to a Great Place To Work 2021 Global Employee Engagement Study. We take pride in our company culture to ensure a sense of support and family among our employees.

Our Cartwheel Culture; Building and Supporting Human Capital

We understand the commitment our employees make to our company and we take our commitment to them very seriously. Consistent with this commitment, we strive to create a work environment in which everyone is empowered to develop, to contribute, and to thrive. We strongly believe our corporate culture is the operating system that powers the company. We talk about it, obsess over it, and have even given it a name – Cartwheel Culture.

Our Cartwheel Culture is uniquely ours and it's one we love and nurture every day. Our Cartwheel Culture provides a shared set of beliefs that drives everyday behaviors. These include:

- Courage: We think big. We act boldly. We take on new challenges. We challenge ourselves and our colleagues to try new things that are difficult. We take smart risks. We explore
 new ideas and do things differently.
- Focus on Core Strength: We unleash our strengths and shore up weaknesses in our company, in every department and in each member of our company.
- Flexibility: We view opportunities and challenge from all angles...even upside down. We explore all possibilities and are both willing and able to respond to changing
 circumstances and expectations. We make it a priority to listen and understand other people's ideas and viewpoints.
- Lend a Hand: We actively support each other to achieve our common goal. Teamwork Matters.
- Persistence: We believe that innovation comes from persistence and learning from our mistakes. We are persistent in the pursuit of our goals and believe that it's better to try and sometimes fail than to sit tight and fail for sure. We learn from the mistakes we make and move forward.

Code of Business Conduct and Business Ethics

All employees are expected to conduct business with the highest standards of business ethics. Each employee receives and agrees to follow our Code of Business Conduct and Ethics. Our Code of Business Conduct and Ethics does more than just codify rules of conduct - it is the very foundation by which we conduct business every day. The Code of Business Conduct and Ethics, which also applies to our board members, describes how we put our values into practice, and it explains our commitments, our expectations and provides guidance for our employees and all others who work on our behalf. Our employees receive annual training on our Code of Business Conduct and Ethics. We have an open access policy, signifying that employees are encouraged to discuss any related concerns with management or report concerns anonymously through an Integrity Helpline.

Number of Employees, Tenure and Turnover

Our workforce consists of a highly skilled, diverse, and engaged team dedicated to the company's mission and goals. As of December 31, 2022, we had 414 active employees, all located within the United States, of whom 232 employees were engaged in sales, general and administrative activities, 87 were engaged in research and development activities, and 95 were engaged in manufacturing operations. During 2022, the number of employees increased by 65, or nearly 18%. None of our employees are represented by a labor union, and we have never experienced any employment-related work stoppages. We consider our relationship with our employees to be good.

As of December 31, 2022, 27% of our employees had been with Silk Road Medical for more than four years. While fluctuations may occur within our workforce from time to time, we track and attempt to manage our attrition rates and also analyze employee departure data so that we can continually improve upon our employee experience. During 2022, our employee turnover rate related to voluntary terminations was approximately 11%, the same rate as last year.

Commitment to Diversity and Inclusion

We strive to create an inclusive work environment that represents the diversity in the communities where we live and work and are proud of the diversity throughout our entire organization, with women representing 46% of our organization and 42% of our organization identifying as Black/African American, Hispanic or Latino, Native Hawaiian or Pacific Islander, or two or more races. Our overall percentage of 46% women is consistent across leadership roles within the company, where women represent 53% of our people leaders and 42% of our executive leaders, including our President and Chief Executive Officer, Erica J. Rogers. With respect to racial/ethnic diversity, 31% of our front-line managers and 34% of our people leaders identify as Asian, Hispanic or Latino, or two or more races.

We aim to ensure that our board of directors and senior management team reflect the diversity of our global stakeholders, including our customers, employees and the communities we serve. As of December 31, 2022, our board of directors, which consists of eight members, includes three female and two racially or ethnically diverse members, and our management team, which consists of 17 members, includes eight females and two racially or ethnically diverse members.

In addition, we actively recruit candidates from a variety of backgrounds and work to ensure a fair interview and selection process. We are also active in building a pipeline of candidates through our Summer @ the Road internship program, which will help us ensure a diverse employee base. We have partnered with organizations such as East Side Prep in East Palo Alto, California, and diversity groups at several universities from which we recruit students. In 2022, we had 11 interns with 82% being Black/African American, Hispanic or Latino, Asian or women in engineering fields. Two interns accepted full-time jobs and five others will be returning in the summer of 2023.

Commitment to Creating a Safe, Healthy and Secure Work Environment

We are committed to providing a safe, healthy and secure work environment for all employees and visitors. Safety is extremely important to the company. We have developed and implement several health and safety programs throughout our facilities with employees' safety in mind. These programs include an Injury and Illness Prevention/AWAIR Program, an Emergency Action Plan, an Ergonomic Program, an Exposure Control Plan, a Hazard Communication Program, a Hazardous Waste Management Program, and other specialized safety programs. We support these programs and allot time for safety training. In addition, any employee working in a hospital operating room is required to wear a dosimetry badge that monitors occupational radiation exposure to ensure compliance with annual limits. Our Employee Safety Committee reviews performance monthly to discuss trends and risks, as well as opportunities for improvement. We also recently established an Employee Emergency Response Team comprised of volunteers trained in First Aid, CPR, AED operation and site-specific emergency procedures. We are proud of our safety record. During 2022, our total recordable injury rate was 1.2, which is below the average for the medical device manufacturing industry. The total recordable injury rate is a standard metric comparing recordable injury rate per 100 employees.

Commitment to Competitive and Fair Compensation

We place a focus on attracting and retaining talented and experienced individuals to manage and support our operations and believe that employees should be compensated fairly for their contributions to the company. To ensure we pay our employees competitively, annual benchmarking is completed on all positions throughout the company and we use external benchmarking surveys to guide our assessment of compensation competitiveness. Our compensation program consists of the three primary components: base salary, annual bonus targets (non-sales), commission plans (sales), and equity. We also offer all eligible employees the option to participate in our Employee Stock Purchase Plan, or ESPP. Participants in the ESPP may purchase our common stock at a 15% discount to market price. We believe our ESPP plan,

along with our new hire equity grants and refresh equity grants, helps to build an ownership mindset amongst our participating employees

Commitment to the Health and Wellbeing of our Employees

One of our top priorities is to maintain the health and wellbeing of our employees and their families. To achieve this goal, we offer a comprehensive employee benefits package with a variety of options. For eligible employees, these programs include Medical, Dental, Vision, Life Insurance, Disability Programs, Retirement Programs including a match on the 401(k), Flexible Spending Accounts, Health Savings Accounts with a generous employeer contribution, and an Employee Assistance Program. We pay 91% of healthcare premium costs on behalf of our employees. We also offer paid time off on an accrual basis for employees in non-exempt positions and flexible time away for employees in exempt positions. We offer sick leave, parental leave, discounted childcare, backup dependent care and flexible work arrangements for positions that can performed remotely from one of our two headquarters sites.

Commitment to Learning and Development: Succession Planning

We believe that the professional development of our employees is a critical element to the success of our company. We have invested in a robust learning and development program that provides employees at all levels of the company opportunities to build and grow their skills in their current roles and prepare them for future roles in the company.

We have an extensive training and development program in place for our salesforce that includes a robust clinical training continuum for our therapy development specialists, area managers and area directors. Upon hire, these employees attend a training program that includes intensive clinical/practical application training, the observation of live TCAR cases followed by intermediate training with advanced clinical education. Employees in these roles also attend regular continuing education courses on clinical topics to ensure their knowledge is current.

We also actively support the professional education of people managers through a leadership development program that builds important leadership skills through online and live training programs. In addition, we provide training that builds knowledge on our product design, manufacturing process and also enhances skills on daily tasks including software tools and applications.

On an annual basis, our leadership team participates in a talent review and succession planning exercise to identify organizational needs, development opportunities, and potential future leaders, which enables us to identify the resources and skill sets needed to meet our growth objectives. Our board of directors also conducts an annual talent management review, focusing on development of talent, diversity, and succession planning for critical positions.

Employee Engagement

We provide all employees with the opportunity to share their opinions and feedback on our culture through an engagement survey that is generally performed every year. Results of the engagement survey are measured and analyzed to enhance the employee experience, promote employee retention, drive change, and leverage the overall success of our organization. Our strong employee response was indicative of our engagement, with 72% of employees participating in the most recent survey.

Commitment to Corporate Philanthropy

Through our corporate philanthropy program, Lend a Hand, we are committed to supporting social causes and educational initiatives that help build stronger and healthier communities. Over the years, we have been involved in a variety of projects, including holiday gift drives, school backpack drives, the hand making and donation of blankets to a local rehabilitation and healthcare center near our Sunnyvale, California headquarters, participation in the Stroke Awareness Foundation's Fight Stroke Walk, and building bikes for underprivileged children.

Additional Information

Additional information about our human capital and people, including our culture; employee health and safety; diversity, equity and inclusion; talent attraction, retention and development; employee wellness; and community involvement and engagement, is included in our most recent Corporate Responsibility Report, which is available under the Corporate Governance section on our website. Information contained or referenced on our website is not incorporated by reference and does not form a part of this Annual Report on Form 10-K.

Corporate Information

We were incorporated in Delaware on March 21, 2007 as Silk Road Medical, Inc. Our principal executive offices are located at 1213 Innsbruck Drive, Sunnyvale, California 94089, and our telephone number is (408) 720-9002. Our website address is www.silkroadmed.com.

Available Information

We file electronically with the SEC, our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act. We make available on our investor relations website at https://investors.sikroadmed.com/, free of charge, copies of these reports and other information as soon as reasonably practicable after we electronically file such material with, or furnish it to the SEC

Investors and others should note that we announce material financial information to our investors using SEC filings, press releases, our investor relations website, public conference calls and webcasts. We use these channels as well as social media to communicate with investors, customers and the public about our company, our products and other issues. It is possible that information we post on social media channels could be deemed to be material information. The information on, or that may be accessed through, our website and social media channels is not incorporated by reference into this Annual Report on Form 10-K and should not be considered a part of this Annual Report on Form 10-K.

Item 1A. Risk Factors

We have identified the following risks and uncertainties that may have a material adverse effect on our business, financial condition, results of operations and future growth prospects. Our business could be harmed by any of these risks. The risks and uncertainties described below are not the only ones we face. The occurrence of any of the following risks or additional risks and uncertainties not presently known to us or that we currently believe to be immaterial could materially and adversely affect our business, financial condition, results of operations and future prospects. The trading price of our common stock could decline due to any of these risks, and you may lose all or part of your investment. In assessing these risks, you should also refer to the other information contained in this Annual Report on Form 10-K, including our financial statements and related notes. Please also see "Cautionary Note Regarding Forward-Looking Statements."

Summary of Principal Risk Factors

The following risks and uncertainties are among the most significant we face. However, the risks and uncertainties identified in this subsection are not the only ones we face and are qualified in their entirety by reference to all of the risk factors as further described in this Item 1A.

Risks Related to Our Business

- · We have a history of net losses, and we expect to incur operating losses in the future and we may not be able to achieve or sustain profitability.
- · We rely on, and currently sell products to enable, TCAR, which is our only product offering.
- · Our business is dependent upon the continued adoption of TCAR by hospitals and physicians.
- Adoption of TCAR depends upon positive clinical data and medical society recommendations, and negative clinical data or medical society recommendations would adversely
 affect our business.
- Global supply chain constraints and constrained labor markets, including those caused by COVID-19, could result in the inability of our suppliers to deliver finished goods, components, sub-assemblies or materials to us on a timely basis or at all.
- General macroeconomic factors, including inflation, price pressures and the risk of a recession, could increase our manufacturing costs and operating expenses or lower demand for our TCAR products and have a material adverse impact on our financial condition and results of operations.
- If we are not able to obtain or maintain adequate levels of third-party coverage and reimbursement for the procedures using our products, if third parties rescind or modify their coverage, or if patients are left with

significant out-of-pocket costs, it would have a material adverse effect on our business, financial condition and results of operations.

- · If we fail to comply with our obligations in our intellectual property license from Cordis, we could lose license rights that are important to our business.
- We rely on Cordis to supply the ENROUTE stent, and if Cordis fails to supply the ENROUTE stent in sufficient quantities or at all, it will have a material adverse effect on our business, financial condition and results of operations.
- · TCAR involves surgical risks and is contraindicated in certain patients, which may limit adoption.
- . We face manufacturing risks that could adversely affect our ability to manufacture products, reduce our gross margins and negatively affect our business and operating results.
- We depend on a limited number of single-source suppliers to manufacture our components, sub-assemblies, materials and products, including Cordis, which makes us vulnerable to supply shortages and price fluctuations that could have a material adverse effect on our business, financial condition and results of operations.
- We face risks related to health epidemics and other outbreaks, such as the COVID-19 pandemic and the spread of new variants, which may negatively impact our business and operations.
- · The failure of third parties to meet their contractual, regulatory, and other obligations could adversely affect our business.
- Our results of operations could be materially harmed if we are unable to accurately forecast customer demand for our products and manage our inventory.

Risks Related to Our Intellectual Property

- · We may become a party to intellectual property litigation or administrative proceedings that could be costly and could interfere with our ability to sell and market our products.
- Our success depends on our ability to obtain, maintain and protect our intellectual property rights.

Risks Related to Government Regulation

- · Healthcare policy changes, including recently enacted legislation reforming the U.S. healthcare system, could harm our business, financial condition and results of operations.
- Our products have in the past and could in the future be subject to product recalls that could harm our reputation or increase the probability of inspection by, or additional scrutiny from, the FDA or other relevant regulatory bodies.
- · Changes in the CMS fee schedules may affect our hospital customers and thereby harm our revenue and operating results.

Risks Related to Our Business

We have a history of net losses, and we expect to incur operating losses in the future and we may not be able to achieve or sustain profitability.

We have incurred net losses since our inception in March 2007. For the year ended December 31, 2022, we had a net loss of \$55.0 million and we expect to continue to incur additional losses in the future. As of December 31, 2022, we had an accumulated deficit of \$343.7 million. To date, we have financed our operations primarily through equity and debt financings and from sales of our portfolio of TCAR products. The losses and accumulated deficit have primarily been due to the substantial investments we have made to develop our products, as well as for costs related to general research and development, including clinical and regulatory initiatives to obtain marketing approval, sales and marketing efforts, investments in manufacturing and distribution capacity, and other infrastructure improvements.

Over the next several years, we expect to continue to devote a substantial amount of our resources to increase adoption of TCAR using our products, expand commercialization efforts in the United States and select international markets, improve and expand reimbursement for TCAR, conduct clinical studies, and develop additional products. In addition, as a public company, we incur significant legal, accounting, director and officer liability insurance and other expenses, all of which continue to increase. Accordingly, we expect to continue to incur operating losses for the foreseeable future and we cannot assure you that we will achieve profitability in the future or that, if we do become profitable, we will sustain profitability. Our failure to achieve and sustain profitability in the future will make it more difficult to finance our business and accomplish our strategic objectives, which would have a material adverse effect on our business, financial condition and results of operations and cause the market price of our common stock to decline.

We rely on, and currently sell products to enable, TCAR, which is our only product offering.

To date, all of our revenue has been derived, and we expect it to continue to be derived in the near term, from sales of our products that enable TCAR. TCAR is a relatively new treatment option for certain patients diagnosed with carotid artery disease and, as a result, physician awareness of TCAR and our products, and experience with TCAR and our products, is limited. A number of factors that are outside of our control may contribute to fluctuations in our financial results, including:

- Physician experience and hospital demand for our products and the extent of adoption of TCAR, including the rate at which physicians recommend our products and TCAR to their patients;
- Failure of our products that enable TCAR to significantly penetrate the target markets;
- · Delays in, or failure to supply product, component and material deliveries by our third-party suppliers;
- · Positive or negative media coverage, or public, patient and/or physician perception, of our products and TCAR or competing products and procedures;
- · Any safety or effectiveness concerns that arise regarding our products or TCAR;
- Unanticipated delays in product development or product launches:
- Our ability to maintain our current or obtain further regulatory clearances or approvals; and
- Introduction of new products or procedures for treating carotid artery disease that compete with our products and the TCAR procedure.

It is therefore difficult to predict our future financial performance and growth, and such forecasts are inherently limited and subject to a number of uncertainties. If our assumptions regarding the risks and uncertainties we face, which we use to plan our business, are incorrect or change due to circumstances in our business or our markets, or if we do not address these risks successfully, our operating and financial results could differ materially from our expectations and our business could suffer.

In addition, because we devote substantially all of our resources to our products that enable TCAR and rely on our products and the adoption of TCAR as our sole source of revenue, any factors that negatively impact our products or TCAR, or result in a decrease in sales of products, could have a material adverse effect on our business, financial condition and results of operations.

Our business is dependent upon the continued adoption of TCAR by hospitals and physicians.

Our future growth and profitability largely depend on our ability to increase physician awareness and adoption of TCAR and on the willingness of physicians to recommend the procedure to more of their patients. Physicians may not use our products unless they are able to determine, based on experience, clinical data, medical society recommendations and other analyses, that our products provide a safe and effective treatment alternative for carotid artery disease. Even if we are able to raise awareness and increase adoption of TCAR among physicians, physicians tend to be slow in changing their medical treatment practices and may be hesitant to select our products or TCAR for recommendation to patients for a variety of reasons, including:

- · Long-standing relationships with competing companies and distributors that sell other products, such as stents and embolic protection devices for CAS;
- Competitive response and negative selling efforts from providers of alternative carotid revascularization products;

- · Perceived liability risk generally associated with the use of new products and procedures;
- · Lack or perceived lack of sufficient clinical evidence, including long-term data, supporting clinical benefits;
- · Familiarity and experience with Carotid Endarterectomy, or CEA, and reluctance to change to or use new products and procedures; and
- Time commitment and skill development that may be required to gain familiarity and proficiency with TCAR and our products.

Physicians play a significant role in determining the course of a patient's treatment for carotid artery disease and, as a result, the type of treatment that will be recommended or provided to a patient. We focus our sales, marketing and education efforts primarily on vascular surgeons, and aim to educate referring physicians such as cardiologists, radiologists, neurologists, and general practitioners regarding the patient population that would benefit from TCAR. However, we cannot assure you that we will achieve broad education or market acceptance among these practitioners. For example, if diagnosing physicians who serve as the primary point of contact for patients are not made aware of TCAR, they may not refer patients to physicians for treatment using our products, and those patients may instead not seek treatment at all or may be treated with alternative procedures. In addition, some physicians may choose to utilize TCAR on only a subset of their total patient population or may not adopt TCAR at all. If a physician experiences an adverse event in one or more of their TCAR patients or elects to convert TCAR to CEA mid-procedure, they may not continue offering and performing TCAR at the same rate or at all. Further, TCAR may not fit into the workstreams of certain physicians. If we are not able to effectively demonstrate that TCAR is beneficial in a broad range of patients, adoption of TCAR will be limited and may not occur as rapidly as we anticipate, which would have a material adverse effect on our business, financial condition and results of operations. We cannot assure you that TCAR or our products will achieve broad market acceptance among hospitals and physicians. Any failure of TCAR or our products to satisfy demand or to achieve meaningful market acceptance and penetration will harm our future prospects and have a material adverse effect on our business, financial condition and results of operations.

In addition, the medical device industry's relationship with physicians is under increasing scrutiny by the Health and Human Services Office of the Inspector General, or OIG, the Department of Justice, or DOJ, state attorneys general, and other foreign and domestic government agencies. Our failure to comply with laws, rules and regulations governing our relationships with physicians, or an investigation into our compliance by the OIG, DOJ, state attorneys general or other government agencies, could significantly harm our business.

In most cases, before physicians can use our products for the first time, our products must be approved for use by a hospital's new product or value analysis committee, or the staff of a hospital or health system. Following such approval, we may be required to enter into a purchase contract. Such approvals or requirements to enter into a purchase contract could deter or delay the use of our products by physicians. We cannot provide assurance that our efforts to obtain such approvals, enter into purchase contracts, or generate adoption will be successful or increase the use of our products, and if we are not successful, it could have a material adverse effect on our business, financial condition and results of operations.

Adoption of TCAR depends upon positive clinical data and medical society recommendations, and negative clinical data or medical society recommendations would adversely affect our business.

The rate of adoption of TCAR and sales of our products that facilitate the procedure is heavily influenced by clinical data. Although the Society for Vascular Surgery's, or the SVS's Vascular Quality Initiative contains real world data retrospectively comparing carotid revascularization procedures including TCAR, we have not conducted head-to-head clinical trials to prospectively compare TCAR to the procedures historically available to patients, such as CEA or CAS, which may limit the adoption of TCAR. Additionally, the Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis 2, or CREST-2, clinical trial currently funded by the National Institutes of Health, is ongoing and is designed to compare the effectiveness of each of CEA and CAS, in parallel randomized trials, with best medical therapy alone in standard surgical risk asymptomatic patients with carotid artery disease. We estimate that enrollment will not be completed until sometime between 2023-2025, followed by a mean follow-up period of four years. After the follow-up period post final enrollment, the trial could conclude that medical management alone achieves the same therapeutic results as CEA and/or CAS, which could have an adverse impact on the adoption of TCAR. Finally, our competitors and third parties may also conduct clinical trials of our products without our participation. Unfavorable or inconsistent clinical data from existing or future clinical trials conducted by us, our competitors or third parties, the interpretation of our or other clinical data or findings of new or more frequent adverse events, could have a material adverse effect on our business, financial condition and results of operations.

As physicians are influenced by guidelines issued by physician organizations, such as the SVS, the rate of adoption of TCAR and sales of our products that facilitate the procedure are also influenced by medical society recommendations. We believe the SVS's Clinical Practice Guidelines, or SVS Guidelines, are of importance to the broader market acceptance of TCAR. The revised SVS Guidelines on the management of carotid artery disease were published in June 2021. Like previous versions of the guidelines, it generally discusses Carotid Artery Stenting, or CAS, and embolic protection methods, including flow reversal. The 2021 edition does state that TCAR is preferred over CEA and CAS in anatomically or physiologically high surgical risk patients, whether symptomatic or asymptomatic. If subsequent versions of the SVS Guidelines do not recommend TCAR, or if the SVS issues a negative or more limited statement regarding TCAR, physicians may not adopt or continue to use TCAR or our products at the same rate or at all, which would have a material adverse effect on our business, financial condition and results of operations will be adversely affected.

Adoption of TCAR depends upon appropriate physician training, and inadequate training may lead to adverse patient outcomes, affect adoption of TCAR and adversely affect our business.

The success of TCAR depends in part on the skill of the physician performing the procedure and on our customers' adherence to appropriate patient selection and proper techniques provided in training sessions conducted by our training faculty. For example, we train our customers to ensure correct use of our ENROUTE NPS and proper deployment of our ENROUTE stent. However, physicians rely on their previous medical training and experience when performing TCAR, and we cannot guarantee that all such physicians will have the necessary surgical and endovascular skills to perform the procedure. While we mandate physician attendance at our TCAR training program or training with proctors, we do not control which physicians perform TCAR or how much training they receive. Physicians who have not completed our training sessions may nonetheless attempt to perform TCAR. If physicians perform TCAR in a manner that is inconsistent with its labeled indications, with components that are not our products or without adhering to or completing our training sessions, their patient outcomes may not be consistent with the outcomes achieved in our and other clinical trials, studies or registries of TCAR. This result may negatively impact the perception of patient benefit and safety and limit adoption of TCAR and our products that facilitate the procedure, which would have a material adverse effect on our business, financial condition and results of operations. Additionally, hospitals and physician organizations may adopt physician credentialing guidelines requiring TCAR training that is more extensive than our training program. If physicians conclude that we do not provide adequate TCAR training, they may be less likely to adopt TCAR and our products, which could have a material adverse effect on our business, financial condition and results of operations.

Global supply chain constraints and constrained labor markets, including those caused by COVID-19, could result in the inability of our suppliers to deliver finished goods, components, sub-assemblies or materials to us on a timely basis or at all.

We may not be able to maintain an adequate supply of the components, sub-assemblies and materials that are used to manufacture our TCAR products as well as to support our research and development activities for new products. For example, certain liners and shrink tubing components used in both the ENROUTE stent and the ENROUTE NPS have been in short supply and delivery of these materials have been delayed from time to time, which could result in manufacturing delays for our TCAR products. Similarly, we rely on Lake Region Medical for our supply of guidewires, which have also been in short supply from time to time. If there were a shortage of supply, the cost of components, sub-assemblies and materials may increase or we may need to pay a premium to obtain sufficient supply, either of which could harm our ability to provide our products on a cost-effective basis or at all, or we may experience delays in providing our TCAR products to our customers. We also may experience delays in and increased costs for our research and development programs and clinical trials due to the inability to obtain the necessary materials to advance these programs and trials. In connection with any supply shortages, reliable and cost-effective replacement sources may not be available on short notice or at all, and this may force us to increase prices and face a corresponding decrease in demand for our TCAR products, or force us to absorb these increased costs. Our suppliers may also be impacted by supply or labor shortages which may delay or impact the availability of the components, sub-assemblies and materials needed to manufacture our TCAR products. In the event that any of our suppliers experience supply or labor shortages, delays, or were to reduce, or discontinue, production of our key product components, sub-assemblies or the materials used in our TCAR products, developing alternate sources of supply for these items would be time consuming, difficult and costly. If we or one of our suppliers were to experience a supply shortage

General macroeconomic factors, including inflation, price pressures, and the risk of a recession, could increase our manufacturing costs and operating expenses or lower demand for our TCAR products and have a material adverse impact on our financial condition and results of operations.

The risk of a sustained economic downturn or recession and other macroeconomic phenomena could adversely affect customer demand for our TCAR products. We continuously monitor the effects of inflationary factors, such as increases in our cost of goods sold and selling and operating expenses, which may adversely affect our results of operations. Specifically, we are experiencing inflationary and price pressures and increased labor costs and labor and staffing shortages, affecting the cost of the components for our TCAR products and the wages that we pay our employees, as well as the wages our vendors pay their employees, due to challenging labor market conditions. Competitive, macroeconomic and regulatory conditions restrict our ability to fully recover, such as increased costs through price increases, higher costs of acquired goods and services resulting from inflation, other drivers of cost increases or reduced demand for TCAR products. We may be unable to pass these increased costs along to our customers or fully offset the impact of persistent inflation or a recession. Our inability or failure to do so could have a material adverse effect on our business, financial condition and results of operations or cause us to need to obtain additional capital earlier than anticipated.

If we are not able to obtain or maintain adequate levels of third-party coverage and reimbursement for the procedures using our products, if third parties rescind or modify their coverage, or if patients are left with significant out-of-pocket costs, it would have a material adverse effect on our business, financial condition and results of operations.

TCAR is currently covered under certain circumstances for certain patients by the Centers for Medicare and Medicaid Services, or CMS, under a National Coverage Determination, or NCD, and has been covered by some commercial payers, independent networks and other entities not governed by the National Coverage Determination. In the United States, we derive our revenue from sales to hospitals and medical centers, which typically bill all or a portion of the costs and fees associated with our products to various third-party payers, including Medicare, Medicaid, Veterans' Administration, private commercial insurance companies, health maintenance organizations and other healthcare-related organizations, and then bill patients for any applicable deductibles or co-payments. For example, our contracts are with the hospitals and medical centers that purchase our products for use with TCAR and not with the commercial payers. As a result, access to adequate coverage and reimbursement for our products by third-party payers is essential to the acceptance of our products by our customers.

However, in the United States, there is no uniform policy of coverage and reimbursement for medical device products and services among third-party payers, so coverage and reimbursement can differ significantly from payer to payer, and each coverage decision and level of reimbursement is independent. As a result, third-party reimbursement may not be available or adequate for our products, and there is no guarantee that we will be able to maintain our current levels of coverage or reimbursement or be able to expand coverage to other insurance carriers. Further, payers continually review new technologies for possible coverage and can, without notice, deny or limit coverage for products and procedures or delay coverage approval until further clinical data are available. As a result, the coverage determination, technology assessment, and coverage reconsideration processes are often time-consuming and costly processes that may require us to provide scientific and clinical support for the use of our products to each payer separately, with no assurance that coverage and adequate reimbursement will be obtained, or maintained if obtained. If third-party reimbursement is not available or adequate for TCAR procedures using our products, or if there is any decline in the amount that payers are willing to reimburse our customers for TCAR, new customers may not adopt, or may reduce their rate of adoption of, our products and we could experience additional pricing pressure, any of which could have a material adverse effect on our business, financial condition and results of operations.

Products for carotid stenting including our TCAR products are covered for Medicare beneficiaries under certain circumstances under an NCD for Percutaneous Transluminal Angioplasty. Coverage for non-Medicare patients depends upon commercial and other payer policies. Based on reimbursement information regarding CAS from IBM® MarketScan® Inpatient View, we estimate that approximately 75% of carotid procedures are reimbursed by CMS and the remaining approximately 25% are reimbursed by commercial and other payers. The Medicare program is administered by CMS and the Medicare Administrative Contractors, or MACs, which make determinations regarding Medicare hospital and physician coverage and payment. CMS reimburses hospital inpatient services based on Medicare Severity Diagnosis Related Groups, or MS-DRGs. All CAS, TCAR and CEA procedures are currently paid only as Medicare inpatient procedures. CMS's policy focus on hospital price transparency, site (e.g. inpatient, outpatient, ambulatory surgery center and office) neutral payments and MS-DRG refinements may place additional downward pressure on future hospital inpatient payments. Medicare payments to physicians are based on a Resource Based Relative Value System. CMS's policy changes to adjust or reallocate reimbursement between primary care services and specialty services may result in reductions in the payment rate for procedures involving our products. As a result of any reductions in payments to hospitals and physicians for TCAR procedures, TCAR utilization may decline, which would have a material adverse effect on our business, financial condition and results of operations. Additionally, patients may elect to reduce or defer out-of-pocket costs during times of economic uncertainty or periods of legislative change. If hospital, physician and/or patient demand for TCAR, and thus our products that facilitate the procedure, are adversely affected by third-party

reimbursement policies and decisions, it will have a material adverse effect on our business, financial condition and results of operations.

Any future reconsideration of the applicable Medicare NCD 20.7 - Percutaneous Transluminal Angioplasty could result in expansion of coverage of carotid stenting procedures including TCAR based on FDA-approved indications or continued or additional coverage limitations, including a requirement to participate in CMS-approved investigational studies. CMS's NCD that covers TCAR and CAS is subject to change based upon the availability of new trial data and other clinical data as well as the development and availability of new medical devices and medical procedures in this space, including the medical community's current understanding of patient selection and operator experience and their impact on periprocedural complications, among other factors that can impact patient outcomes. In particular, the comparative benefits of various revascularization procedures and medical devices to prevent future strokes in symptomatic and asymptomatic carotid stenosis patients as well as ways to optimize patient outcomes are subject to ongoing and continuous review and clinical evaluation. For example, in January 2023, CMS accepted a formal request from the Multispecialty Carotid Alliance to expand Medicare beneficiary access for carotid artery stenting with embolic protection in patients at high risk and standard risk for CEA with asymptomatic carotid artery stenosis ≥ 70% and symptomatic carotid artery stenosis ≥ 50%, including the removal of facility or operator requirements. We submitted comments to CMS prior to the initial 30-day public comment period on the NCD closing on February 11, 2023. Submitted comments are available on the CMS website. The proposed decision memo is due July 12, 2023 with a public comment period ending on August 11, 2023. The national coverage analysis completion date is expected in the fourth quarter of 2023. To the extent the medical community's or CMS's views change regarding TCAR, CAS and CEA procedures, either individually or in comparison to each other, on issues of safety and effectiveness, opera

Internationally, reimbursement systems in foreign markets vary significantly by country and by region within some countries, and reimbursement approvals must be obtained on a country-by-country basis. In certain international markets, a product must be approved for reimbursement before it can be approved for sale in that country. Additionally, many international markets have government-managed healthcare systems that control reimbursement for products and procedures. In most markets there are both private insurance systems and government-managed systems. If sufficient levels of coverage and reimbursement are not available for TCAR or our current or future products, in either the United States or internationally, the demand for our products and our revenues will be adversely affected.

Additionally, when payers combine their operations, the combined company may elect to reimburse for TCAR at the lowest rate paid by any of the participants in the consolidation or use its increased size to negotiate reduced rates. If one of the payers participating in the consolidation does not reimburse for TCAR at all, the combined company may elect not to reimburse for TCAR, which would adversely impact our business, financial condition and results of operations.

If we fail to comply with our obligations in our intellectual property license from Cordis, we could lose license rights that are important to our business.

We are a party to a license agreement with Cordis, under which Cordis has granted us a worldwide, non-exclusive, royalty-bearing license, without the right to sublicense, to certain of its intellectual property related to the PRECISE® carotid stent for transcervical treatment of carotid artery disease with an intravascular stent for certain applications for accessing blood vessels through the neck and cervical area. In August 2021, Cardinal Health sold Cordis to private equity firm Hellman & Friedman LLC. Our license agreement with Cordis imposes, and we expect that any future license agreements will impose, certain diligence, royalty, and other obligations on us. If we fail to comply with these obligations, our licensors, including Cordis, may have the right to reduce the scope of our rights or terminate these agreements, in which event we may not be able to develop and market any product that is covered by these agreements. If not extended, this license will expire on a country-basis upon the expiration of all applicable Cordis patents – in certain countries, for example, our rights are expected to expire within the next few years. Termination of this license for failure to comply with such obligations or for other reasons, or reduction, elimination or expiration of our licensed rights under it or any other license or agreement, may result in our having to negotiate new or reinstated licenses on less favorable terms or our not having sufficient intellectual property rights to operate our business or cause us to enter into new licenses for different stents. The occurrence of such events could materially harm our business and financial condition.

The risks described elsewhere pertaining to our intellectual property rights also apply to the intellectual property rights that we in-license, and any failure by us or our licensors, including Cordis, to obtain, maintain, defend and enforce these rights could have a material adverse effect on our business. In some cases we do not have control over the prosecution, maintenance or enforcement of the patents that we license, and may not have sufficient ability to provide input into the patent prosecution, maintenance and defense process with respect to such patents, and our licensors may fail to take the steps that we believe are necessary or desirable in order to obtain, maintain, defend and enforce the licensed patents.

We rely on Cordis to supply the ENROUTE stent, and if Cordis fails to supply the ENROUTE stent in sufficient quantities or at all, it will have a material adverse effect on our business, financial condition and results of operations.

We rely on Cordis to manufacture the ENROUTE stent pursuant to a supply agreement. We strive to maintain an inventory of several months' worth of ENROUTE stents to guard against potential shortfalls in supply, and we estimate that it would take up to two years or more to find an alternative supplier for our ENROUTE stent and multiple years to identify and seek approval for a different carotid stent. In addition, Cordis currently manufactures the ENROUTE stent at a facility in Juarez, Mexico. This facility has previously and in the future could become subject to a COVID-19 outbreak which would cause Cordis to temporarily shut down manufacturing operations, which would in turn present risk to the ongoing supply of our stents used in TCAR procedures. If Cordis's ability to manufacture the ENROUTE stent is interrupted as a result, or if Cordis experiences a product recall or breaches its supply agreement with us, we may not have a sufficient number of stents for delivery to support TCAR procedures. Finally, if not extended, our supply agreement with Cordis will terminate when our license agreement with Cordis terminates and we can provide no assurance that we will be able to negotiate or enter into a new supply agreement with Cordis on terms that are acceptable to us, or at all. We or Cordis may wish to re-evaluate certain aspects of the supply agreement we have with Cordis which may lead to lengthy or costly negotiations and affect our ability to obtain the ENROUTE stent at an acceptable price or at all. Any shortfall in the supply of ENROUTE stents may result in lower adoption rates for TCAR, fewer TCAR procedures being performed generally, and a material adverse effect on our business, financial condition and results of operations.

TCAR involves surgical risks and is contraindicated in certain patients, which may limit adoption.

Risks of TCAR using our products include the risks that are common to surgical and endovascular procedures, including perforation, dissection, embolization, bleeding, infection, nerve injury and restenosis. Endovascular procedures occurring in the carotid arteries also include the additional risks of stroke, heart attack and death. Risks of using our products in TCAR include risks that are common to surgical and endovascular procedures and are detailed in the FDA-approved and FDA-cleared labeling. Major adverse events associated with all carotid interventions include stroke, heart attack and death. These risks may prevent widespread market adoption in the absence of adequate physician training on our products and in appropriate patient selection.

Our current products are contraindicated, and therefore should not be used, in certain patients. Our ENROUTE NPS is contraindicated in patients in whom antiplatelet and/or anticoagulation therapy is contraindicated; patients with uncorrected bleeding disorders; patients with severe disease of the ipsilateral common carotid artery; and patients with uncorncollable intolerance to flow reversal. Our ENROUTE stent is contraindicated in patients in whom antiplatelet and/or anticoagulation therapy is contraindicated; patients in whom the ENROUTE NPS is unable to be placed; patients with uncorrected bleeding disorders; patients with known allergies to nitinol; and patients with lesions in the ostium of the common carotid artery. Our ENHANCE peripheral access kit is contraindicated in patients with a known or suspected obstruction in the vessel. Our ENROUTE guidewire is contraindicated in patients judged not acceptable for percutaneous intervention. Our ENROUTE Enflate RX Balloon Dilation Catheter is contraindicated for use in coronary arteries. Generally, further contraindications include, but may not be limited to: patients with highly calcified lesions resistant to PTA; patients with a target lesion with a large amount of adjacent acute or sub-acute thrombus; patients with uncorrected bleeding disorders; and patients that have not been anti-coagulated. Additionally, patients who lack at least five centimeters of common carotid artery free of significant disease are not indicated for our ENROUTE NPS.

We face manufacturing risks that could adversely affect our ability to manufacture products, reduce our gross margins and negatively affect our business and operating results.

Our business strategy depends on our ability to manufacture, and our contract manufacturers' ability to manufacture, our current and future products in sufficient quantities and on a timely basis to meet customer demand, while adhering to product quality standards, complying with regulatory quality system requirements and managing manufacturing costs. We have facilities located in Sunnyvale, California, and in Plymouth, Minnesota, where we currently assemble and package certain of our products, and inspect, release and ship all of our products. If our or our manufacturing partners' facilities suffers damage, or a force majeure event, this could materially impact our ability to operate.

We are also subject to numerous other risks relating to our manufacturing capabilities, including:

- Quality and reliability of components, sub-assemblies and materials that we source from third-party suppliers, who are required to meet our quality specifications, the majority of which are our single-source suppliers for the products they supply;
- Our or our manufacturing partners' inability to secure components, sub-assemblies and materials in a timely manner, in sufficient quantities or on commercially reasonable terms;

- · Our or our manufacturing partners' inability to maintain compliance with quality system requirements or pass regulatory quality inspections;
- · Our or our manufacturing partners' failure to develop products in a timely manner or to required specifications or to increase production capacity or volumes to meet demand;
- Our or our manufacturing partners' inability to design or modify production processes to enable us to produce future products efficiently or implement changes in current products in response to design or regulatory requirements; and
- · Difficulty identifying and qualifying, and obtaining new regulatory approvals, for alternative suppliers for components in a timely manner.

As demand for our products increases, we will have to invest additional resources to purchase components, sub-assemblies and materials, hire and train employees and enhance our manufacturing processes. If we or our manufacturing partners fail to increase our production capacity efficiently, we may not be able to fill customer orders on a timely basis, our sales may not increase in line with our expectations and our operating margins could fluctuate or decline. In addition, although we expect some of our products in development to share product features, components, sub-assemblies and materials with our existing products, the manufacture of these products may require modification of our or our manufacturing partners' current production processes or unique production processes, the hiring of specialized employees, the identification of new suppliers for specific components, sub-assemblies and materials or the development of new manufacturing technologies. It may not be possible for us or our manufacturing partners to manufacture these products at a cost or in quantities sufficient to make these products commercially viable or to maintain current gross margins, all of which could have a material adverse effect on our business, financial condition and results of operations.

We depend on a limited number of single-source suppliers to manufacture our components, sub-assemblies, materials and products, including Cordis, which makes us vulnerable to supply shortages and price fluctuations that could have a material adverse effect on our business, financial condition and results of operations.

We rely on single-source suppliers for the components, sub-assemblies and materials for our products, such as our ENROUTE stent and for the key components, sub-assemblies and materials for our ENROUTE NPS. For example, we rely on Lake Region Medical to supply our guidewires. These components, sub-assemblies and materials are critical and there are relatively few alternative sources of supply. We have not qualified or obtained necessary regulatory approvals for additional suppliers for most of these components, sub-assemblies and materials, and we do not carry a significant inventory for some of these items. While we believe that alternative sources of supply may be available, we cannot be certain whether they will be available if and when we need them, or that any alternative suppliers would be able to provide the quantity and quality of components and materials that we would need to manufacture our products if our existing suppliers were unable to satisfy our supply requirements. To utilize other supply sources, we would need to identify and qualify new suppliers to our quality standards and obtain any additional regulatory approvals required to change suppliers, which could result in manufacturing delays and increase our expenses. Our manufacturing partners rely on single-source suppliers as well, and are subject to the foregoing risks.

Our and our manufacturing partners' dependence on third-party suppliers subjects us to a number of risks that could impact our ability to manufacture our products and harm our business, including:

- · Interruption of supply resulting from modifications to, or discontinuation of, a supplier's operations;
- · Delays in product shipments resulting from uncorrected defects, reliability issues or a supplier's failure to produce components that consistently meet our quality specifications;
- · Price fluctuations due to a lack of long-term supply arrangements with our suppliers for key components;
- · Inability to obtain adequate supply in a timely manner or on commercially reasonable terms due to global supply chain constraints or other factors;
- · Difficulty identifying and qualifying alternative suppliers for components in a timely manner;
- Inability of suppliers to comply with applicable provisions of the FDA's Quality System Regulation, or QSR, or other applicable laws or regulations enforced by the FDA and other state and applicable regulatory authorities;

- · Inability to adequately ensure the quality of products and components manufactured by third parties;
- Production delays related to the evaluation and testing of products and components from alternative suppliers and corresponding regulatory qualifications:
- · Delays in delivery by our suppliers due to changes in demand from us or their other customers; and
- . An outbreak of disease or similar public health threat, such as the ongoing threat of new COVID-19 variants, particularly as it may impact our supply chain.

Although we require our third-party suppliers to supply us with components that meet our specifications and comply with applicable provisions of the QSR and other applicable legal and regulatory requirements in our agreements and contracts, and we perform incoming inspection, testing or other acceptance activities to ensure the components meet our requirements, there is a risk that our suppliers will not always act consistent with our best interests, and may not always supply components that meet our requirements or supply components in a timely manner. For example, in the first quarter of 2021, we announced the voluntary recall of certain lots of our ENROUTE Transcarotid Stent System, manufactured by Cordis. Our decision to recall these lots was based on complaints we received about tips detaching from the stent delivery system as well as internal testing that we conducted. We determined the root cause of the detachment was a single operator at Cordis, who, over a specific timeframe, produced lots in which a small number of units were not reliably manufactured to specification. Recalls like this one could cause the supply of our TCAR products to customers to be interrupted, us to incur additional expenses, have to purchase replacement products, negative publicity or damage to our reputation, any of which could cause our results of operations to be adversely impacted.

We face risks related to health epidemics and other outbreaks, such as the COVID-19 pandemic and the spread of new variants, which may negatively impact our business and operations.

Our business could be adversely impacted by the effects of health epidemics and other outbreaks, such as the COVID-19 pandemic and the spread of new variants, or COVID-19, including through:

- Postponement of TCAR procedures by physicians or their patients in response to COVID-19 or the diversion of resources to treat patients with COVID-19 or other conditions deemed higher priority;
- Hospital staffing shortages which may result in fewer diagnoses and a lower number of TCAR procedures performed;
- Restrictions on hospital capacity, or other resource constraints, such as the availability of contrast dye, that may cause problems for hospitals scheduling or rescheduling TCAR procedures;
- Limitations in hospital or employee resources that would otherwise be focused on performing TCAR procedures;
- · Patients who may be reluctant to visit their physicians at their offices or in hospitals due to fear of contracting COVID-19;
- Physicians not performing as many diagnostic tests for their patients and closures, staffing shortages, or reduced hours of the labs where these tests are performed, even where
 physicians continue to treat symptomatic patients, treatment of asymptomatic patients is being deferred in many cases in areas where COVID-19 cases and hospitalizations are
 significant, which has translated into fewer than expected TCAR procedures being performed throughout various periods of the pandemic;
- Delays in enrollment in clinical trials across the medical device industry which may affect any new trials we are pursuing or decide to pursue, including our ROADSTER 3 trial, which is related to our standard surgical risk post-approval study, and our Neuroprotection in Transcarotid Embolectomy, or NITE-1, trial, which is related to one of our stroke treatment products under development;
- Governmental mandates related to COVID-19 or other infectious diseases, which have impacted, may continue to impact, our personnel and personnel at third-party manufacturing facilities in the United States and other countries, and the availability or cost of materials, which could disrupt our supply chain and/or reduce our margins. An extended implementation of governmental mandates could impact our ability to operate effectively and conduct ongoing manufacturing or research and development activities. However, we are considered an essential business under applicable state rules and our manufacturing operations to date are ongoing;

- Delays in necessary interactions with local regulators, ethics committees and other third parties and contractors due to limitations in employee resources or forced furlough of government employees:
- Our key personnel or large groups of our employees contracting a virus, such as COVID-19. We have taken steps to provide for our employees, including providing the ability for
 employees to work remotely and implementing strategies to support a safe work environment for onsite employees. In addition, we have required our employees to receive the
 COVID-19 vaccine and implemented distancing policies and protocols established to continue manufacturing and other operations;
- · Intermittent travel restrictions and restrictive hospital policies impacting our sales professionals and therapy development specialists who support them;
- · Competition for operating room and hybrid operating rooms within hospitals that are resource constrained or have dedicated certain resources only to COVID-19 patients;
- The spread of new virus variants and varying infection and related hospitalization rates which increase the volatility and uncertainty in the expected number of TCAR procedures
 and demand for our products;
- Hospitals cancelling and deferring elective surgeries, which reduces their revenue and impacts their financial results, which could result in pricing pressure on our products as they seek cost savings;
- Hospitals having issues with cash flow or ceasing doing business due to the impact of COVID-19 on their operations, which could reduce the number of hospitals where TCAR is
 performed and adversely affect our ability to collect amounts due to us and our revenue as a result;
- The outbreak and persistence of COVID-19 in international markets that we have targeted for our international expansion has also delayed preparation for and launch of such expansion efforts;
- · Delayed regulatory timelines for approval in some countries;
- · Prolonging existing restrictions related to COVID-19 that have impacted the number of TCAR procedures performed;
- Hospitals restricting or limiting access for non-patients, including our sales professionals and therapy development specialists, which has negatively impacted our access to physicians and their staff; or
- Members of our field team may choose not to enter hospitals due to preexisting conditions, personal choice, or on doctors' orders or may be unable to enter hospitals due to
 hospital policy, although they continue to be available to support TCAR procedures, either in person or virtually.

The extent to which COVID-19 impacts our business will depend on future developments, which are uncertain and cannot be predicted, including indirect impacts on the labor market and the operations of our business as well as the operations of our contractors, partners, and our customers. Additionally, President Biden announced that the administration intends to end the COVID-19 national and public health emergencies on May 11, 2023. The full impact of the termination of the public health emergencies on FDA and other regulatory policies and operations is unclear.

The failure of third parties to meet their contractual, regulatory, and other obligations could adversely affect our business.

We rely on suppliers, vendors, outsourcing partners, consultants, alliance partners and other third parties to research, develop, manufacture and commercialize our products and manage certain parts of our business. Using these third parties poses a number of risks, such as: (i) they may not perform to our standards or legal requirements; (ii) they may not produce reliable results; (iii) they may not perform in a timely manner; (iv) they may not maintain confidentiality of our proprietary information; (v) disputes may arise with respect to ownership of rights to technology developed with our partners; and (vi) disagreements could cause delays in, or termination of, the research, development or commercialization of our products or result in litigation or arbitration. Moreover, some third parties are located in markets subject to political and social risk, corruption, infrastructure problems and natural disasters, in addition to country-specific privacy and data security risk given current legal and regulatory environments. Failure of third parties to meet their contractual, regulatory, and other obligations may materially affect our business.

Our results of operations could be materially harmed if we are unable to accurately forecast customer demand for our products and manage our inventory.

We seek to maintain sufficient levels of inventory in order to protect ourselves from supply interruptions, but keep limited components, sub-assemblies, materials and finished products on hand. To ensure adequate inventory supply and manage our operations with our manufacturing partners and suppliers, we forecast anticipated materials requirements and demand for our products in order to predict inventory needs and then place orders with our suppliers based on these predictions. Our ability to accurately forecast demand for our products would be negatively affected by many factors, including our rapid growth, product recalls, pandemics, failure to accurately manage our expansion strategy, product introductions by competitors, an increase or decrease in customer demand for our products, our failure to accurately forecast customer acceptance of new products, changes to hospital capacity, staffing, procedure and protocol changes, unanticipated changes in general market conditions or regulatory matters and weakening of economic conditions or consumer confidence in future economic conditions.

Inventory levels in excess of customer demand may result in a portion of our inventory becoming obsolete or expiring, as well as inventory write-downs or write-offs. Conversely, if we underestimate customer demand for our products or our own requirements for components, sub-assemblies and materials, our manufacturing partners and suppliers may not be able to deliver components, sub-assemblies and materials to meet our requirements and our manufacturing may be affected by the impact of COVID-19 and other macroeconomic forces on our suppliers. We are working to increase our inventory on hand in reaction to global supply chain constraints, but these inventory levels may prove to be inadequate. If we do not have adequate supply of components, sub-assemblies and materials there may be interruptions, delays or cancellations of deliveries of our TCAR products to our customers, any of which would damage our reputation, customer relationships and business. In addition, several components, sub-assemblies and materials incorporated into our products require lengthy order lead times, and additional supplies or materials may not be available when required on terms that are acceptable to us or our manufacturing partners, or at all, and our manufacturing partners and suppliers may not be able to allocate sufficient capacity in order to meet our increased requirements, any of which could have an adverse effect on our ability to meet customer demand for our products and our results of operations.

Our quarterly and annual results may fluctuate significantly and may not fully reflect the underlying performance of our business.

Our quarterly and annual results of operations, including our revenue, net income or net loss and cash flow, may vary significantly in the future, and period-to-period comparisons of our operating results may not be meaningful. Accordingly, the results of any one quarter or period should not be relied upon as an indication of future performance. Our quarterly and annual financial results may fluctuate as a result of a variety of factors, many of which are outside our control and, as a result, may not fully reflect the underlying performance of our business. Fluctuations in quarterly and annual results may fluctuate period-to-period comparisons may not be the best indication of the underlying results of our business and should only be relied upon as one factor in determining how our business is performing.

We have a limited total addressable market based on our current labeling restrictions.

The total addressable market for TCAR is limited by a number of factors. The safety and effectiveness of certain products for TCAR has not been established for certain patients. For example, the FDA-cleared labeling for the ENROUTE NPS states that patients should have at least five centimeters of common carotid artery free of significant disease for initial access to the artery and positioning of the ENROUTE NPS sheath. In addition, per the FDA-approved labeling for the ENROUTE stent, TCAR is limited to certain threshold degrees of stenosis depending on symptom and surgical risk status. In addition, physicians may choose to perform CEA in patients with certain anatomical characteristics, including heavily calcified carotid arteries, calcified lesions or severe vessel tortuosity. Finally, current labeling for our products includes contraindications for certain patients, thus further reducing our total addressable

Expanding the addressable market for TCAR is dependent upon reimbursement expansion initiatives, favorable data from any post-approval study we or other researchers conduct, and obtaining and maintaining coverage and adequate reimbursement for any new product approvals.

In May 2022, we announced FDA approval of a label expansion for the ENROUTE stent for use in standard surgical risk patients. In June 2022, we announced that CMS, through collaboration with the SVS's Patient Safety Organization and their Vascular Quality Initiative, or VQI, has expanded coverage for TCAR to include standard surgical risk patients within the VQI's TCAR Surveillance Project. As a condition of FDA approval for such label expansion, we are conducting a prospective, multi-center, single-arm post-approval study, ROADSTER 3, to assess real-world treatment of standard surgical risk patients with carotid artery disease using TCAR and announced enrollment of our first patient in September 2022. If the ROADSTER 3 study or other studies conducted by independent researchers or organizations, or complaints

or other reports from our customers or patients, reveal a higher rate of adverse events or other unexpected safety or efficacy concerns, FDA may restrict or withdraw the label expansion approval. Any future report or publication raising any material safety or efficacy concerns regarding any of our approved products or approved uses may cause CMS or other payors to modify or restrict their coverage and reimbursement policies for our products and related procedures. If any of these events were to occur, or if we fail to demonstrate continued safety and efficacy for our approved products and their indications, it may have a material adverse effect on our business, financial condition and results of operations.

Changes in public health insurance coverage and government reimbursement rates for the TCAR procedures using our products could affect the adoption of our products and our future revenue.

The federal government is considering ways to change, and has changed, the manner in which healthcare services are paid for in the United States. Individual states may also enact legislation that impacts Medicaid payments to hospitals and physicians. In addition, CMS establishes Medicare payment levels for hospitals and physicians on an annual basis, which can increase or decrease payment to such entities. Internationally, medical reimbursement systems vary significantly from country to country, with some countries limiting medical centers' spending through fixed budgets, regardless of levels of patient treatment, and other countries requiring application for, and approval of, government or third-party reimbursement. Even if we succeed in bringing our products to market in additional foreign countries, uncertainties regarding future healthcare policy, legislation and regulation, as well as private market practices, could affect our ability to sell our products in commercially acceptable quantities at acceptable prices.

Cost-containment efforts of our customers, purchasing groups and governmental organizations could have a material adverse effect on our sales and profitability.

In an effort to reduce costs, many hospitals in the United States have become members of Group Purchasing Organizations, or GPOs, and Integrated Delivery Networks, or IDNs. GPOs and IDNs negotiate pricing arrangements with medical device companies and distributors and then offer these negotiated prices to affiliated hospitals and other members. GPOs and IDNs typically award contracts on a category-by-category basis through a competitive bidding process. Bids are generally solicited from multiple providers with the intention of driving down pricing or reducing the number of vendors. Due to the highly competitive nature of the GPO and IDN contracting processes, we may not be able to obtain new, or maintain existing, contract positions with major GPOs and IDNs. Furthermore, the increasing leverage of organized buying groups reduces market prices for our products and/or require administrative fees, thereby reducing our revenue and/or margins.

While having a contract with a GPO or IDN for a given product category can facilitate sales to members of that GPO or IDN, such contract positions can offer no assurance that any level of sales will be achieved, as sales are typically made pursuant to individual purchase orders. Even when a provider is the sole contracted supplier of a GPO or IDN for a certain product category, members of the GPO or IDN are generally free to purchase from other suppliers. Furthermore, GPO and IDN contracts typically are terminable without cause by the GPO or IDN upon 60 to 90 days' notice. Accordingly, the members of such groups may choose to purchase alternative products due to the price or quality offered by other companies, which could result in a decline in our revenue.

We may not be able to achieve or maintain satisfactory pricing and margins for our products.

Manufacturers of medical devices have a history of price competition, and we can give no assurance that we will be able to achieve satisfactory prices for our products or maintain prices at the levels we have historically achieved. Any decline in the amount that payers reimburse our customers for TCAR could make it difficult for customers to continue using, or to adopt, our products and could create additional pricing pressure for us. If we are forced to lower the price we charge for our products, our gross margins will decrease, which will adversely affect our ability to invest in and grow our business. If we are unable to maintain our prices, or if our costs increase and we are unable to offset such increase with an increase in our prices, our margins could erode. We will continue to be subject to significant pricing pressure, which could harm our business and results of operations.

If we are required to vacate a facility, we may be unable to produce the products we manufacture or we may experience delays in production or an increase in costs, which could adversely affect our results of operations.

We currently maintain a portion of our manufacturing, research and development and non-field-based sales, general and administrative operations in a building located in Sunnyvale, California, which is situated on or near earthquake fault lines. We have redundant manufacturing for our ENROUTE NPS at our Plymouth, Minnesota facility. Should either of our buildings be significantly damaged or destroyed by natural or man-made disasters, such as earthquakes, fires or other events, including climate change-related severe weather or disasters, it could take extensive time to relocate or rebuild, during which time our employees may seek other positions and our research and development would cease or be delayed. While we maintain property and business interruption insurance, such insurance has limits and would only cover

the cost of rebuilding and relocating and lost revenue, but not general damage, losses caused by earthquakes, losses we may suffer due to our products being replaced by competitors' products or loss in value due to associated decreases in our stock price. The inability to perform our research and development activities, combined with our limited inventory of materials and components and manufactured products, may cause physicians to discontinue using our products or harm our reputation, and we may be unable to reestablish relationships with such physicians in the future. Consequently, a catastrophic event at our facilities could have a material adverse effect on our business, financial condition and results of operations.

Furthermore, the lease for our Sunnyvale, California manufacturing facility, which contains a renewal option for a five-year lease extension, currently expires in October 2024. If we were unable or unwilling to renew at the proposed rates, relocating our manufacturing facility would involve significant expense in connection with the movement and installation of key manufacturing equipment and any necessary recertification with regulatory bodies, and we cannot assure investors that such a move would not delay or otherwise adversely affect our manufacturing activities or operating results.

In addition, we rely on our manufacturing partners to supply certain of our products, and our partners are subject to similar risks with respect to their facilities. If our manufacturing partners' facilities are damaged or destroyed and their ability to supply products to us is limited, it could negatively affect our reputation, physician relationships and TCAR adoption, all of which could have a material adverse effect on our business, financial condition and results of operations. Several of our products are sterilized at a particular third-party facility, with limited alternate facilities. If an event occurs that results in damage to or closure of one or more of such facilities, we may be unable to sterilize such products at the previous levels or at all.

Because of the time required to approve and license a sterilization facility, a third party may not be available on a timely basis to replace capacity in the event sterilization capacity is lost.

If we fail in our training initiatives, to increase our sales and marketing capabilities or to develop broad brand awareness, our growth will be impeded and our business will suffer.

We currently rely on our direct sales force to sell our products in targeted geographic regions in the U.S., and any failure to maintain and grow our direct sales force could harm our business. The members of our direct sales force are highly trained and possess substantial technical and clinical expertise, which we believe is critical in driving adoption of TCAR. The members of our U.S. sales force are at-will employees. The loss of these personnel to competitors or otherwise could materially harm our business. If we are unable to retain our direct sales force personnel or replace them with individuals of equivalent technical and clinical expertise and qualifications, or if we are unable to successfully instill such technical and clinical expertise in replacement personnel, our revenues and results of operations could be materially harmed.

In order to generate future growth, we plan to continue to expand and leverage our sales, marketing, and medical affairs infrastructure to increase our trained physician and hospital customer base and our business. Identifying and recruiting qualified sales, marketing and medical affairs personnel and training them on TCAR, on applicable federal and state laws and regulations, and on our internal policies and procedures requires significant time, expense and attention. It often takes several months or more before a sales representative is fully trained and productive. Our business may be harmed if our efforts to expand and train our sales force do not generate a corresponding increase in revenue, and our higher fixed costs may slow our ability to reduce costs in the face of a sudden decline in demand for our products. Any failure to hire, develop and retain talented sales personnel, to achieve desired productivity levels in a reasonable period of time or timely reduce fixed costs, could have a material adverse effect on our business, financial condition and results of operations. Our medical affairs department may not train physicians at a rate sufficient to expand our physician base in a manner consistent with our business plan. Our ability to increase our customer base and achieve broader market acceptance of our products will depend to a significant extent on our ability to expand our marketing efforts. We plan to dedicate significant resources to our marketing programs. Our business may be harmed if our marketing efforts and expenditures do not generate a corresponding increase in revenue. In addition, we believe that developing and maintaining broad awareness of our brand is critical to achieving broad acceptance of our products and penetrating new accounts. Brand promotion activities may not generate patient or physician awareness or increase revenue, and even if they do, any increase in revenue may not offset the costs and expenses we incur in building our brand. If we fail to successfully promote, maint

The market for our products is highly competitive. If our competitors are able to develop or market carotid artery disease treatments that are safer, more effective or gain greater acceptance in the marketplace, than any products we develop, our commercial opportunities will be reduced or eliminated.

Our industry is highly competitive, subject to change and significantly affected by new product introductions and other activities of industry participants. CEA has historically been performed by vascular surgeons as the primary surgical

solution for carotid artery disease. The major manufacturers of products, such as patches and shunts, used in connection with CEA include LeMaitre Vascular, Getinge / Maquet, Baxter, Terumo, Gore and Edwards. Some competitors market products for use in CAS, such as peripheral access kits, stents, distal and proximal embolic protection devices, guidewires, balloons and sheaths. Such companies include Abbott, Boston Scientific, Cook, Cordis, Medtronic, Terumo, Gore, Contego Medical and InspireMD. These technologies, other products that are in ongoing clinical trials, new drugs or additional indications for existing drugs could demonstrate better safety, effectiveness, clinical results, lower costs or greater physician and patient acceptance.

We compete, or may compete in the future, against other companies which have longer operating histories, more established products and greater resources, which may prevent us from achieving significant market penetration or improved operating results. These companies enjoy several competitive advantages, including:

- · Greater financial and human capital resources;
- · Significantly greater name recognition;
- · Established relationships with vascular surgeons and other treating specialties, referring physicians, customers and third-party payers;
- · Additional lines of products, and the ability to offer rebates or bundle products to offer greater discounts or incentives to gain a competitive advantage; and
- · Established sales, marketing and worldwide distribution networks.

Because of the size of the market opportunity for the treatment of carotid artery disease, we believe potential competitors have historically dedicated and will continue to dedicate significant resources to aggressively promote their products or develop new products. New treatment options may be developed that could compete more effectively with our products due to the prevalence of carotid artery disease and the extensive research efforts and technological progress that exist within the market.

Our ability to compete depends on our ability to innovate successfully and deliver any new products in a timely manner.

The market for our products is competitive, dynamic, and marked by rapid and substantial technological development and product innovation. New entrants or existing competitors could attempt to develop products that compete directly with ours. Demand for our products and future related products could be diminished by equivalent or superior products and technologies offered by competitors. If we are unable to innovate successfully, our products could become obsolete and our revenue would decline as our customers purchase our competitors' products.

We are currently focused on improving existing products for TCAR, developing new products for TCAR, and developing new products for other disease states beyond carotid artery disease. For example, following receipt of 510(k) clearance from the FDA in September 2022, we initiated a limited market release of our ENROUTE Enflate Transcarotid RX Balloon Dilation Catheter in the fourth quarter of 2022, with a full market release planned in 2023. If we are unable to develop new products, applications or features due to constraints, such as insufficient cash resources, high employee turnover, inability to hire personnel with sufficient technical skills or a lack of other research and development resources, we may not be able to maintain our competitive position compared to other companies. Furthermore, many of our competitors devote a considerably greater amount of funds to their research and development programs than we do, and those that do not may be acquired by larger companies that would allocate greater resources to research and development programs. Our failure or inability to devote adequate research and development programs of our competitors could harm our business.

Any significant delays in our product launches may significantly impede our ability to enter or compete in a given market and may reduce the sales that we are able to generate from these products. We may experience delays in any phase of a product development, including during research and development, clinical trials, regulatory review, manufacturing and marketing. Delays in product introductions could have a material adverse effect on our business, financial condition and results of operations.

Defects or failures associated with our products could lead to additional recalls, safety alerts or litigation, as well as significant costs and negative publicity.

Our business is subject to significant risks associated with the manufacture, distribution and use of medical devices that are placed inside the human body, including the risk that patients may be severely injured by or even die from the

misuse or malfunction of our products caused by design flaws or manufacturing defects. In addition, component failures, design defects, off-label uses or inadequate disclosure of product-related information could also result in an unsafe condition or the injury or death of a patient. These problems could lead to a recall or market withdrawal of, or issuance of a safety alert relating to, our products and could result in significant costs, negative publicity and adverse competitive pressure. For example, in the first quarter of 2021, we announced the voluntary recall of certain lots of our ENROUTE Transcarotid Stent System, manufactured by Cordis. The circumstances giving rise to recalls are unpredictable, and any recalls of existing or future products increase the probability of inspection by, or additional scrutiny from, the FDA and could have a material adverse effect on our business, financial condition and results of operations.

We provide a limited warranty that our products are free of material defects and conform to specifications, and offer to repair, replace or refund the purchase price of defective products. As a result, we bear the risk of potential warranty claims on our products. In the event that we attempt to recover some or all of the expenses associated with a warranty claim against us from our suppliers or vendors, we may not be successful in claiming recovery under any warranty or indemnity provided to us by such suppliers or vendors and any recovery from such vendor or supplier may not be adequate.

The medical device industry has historically been subject to extensive litigation over product liability claims. Operating in the area of the neck with the brain as the end organ is dangerous and presents risks of adverse events such as bleeding, arterial dissection, cranial nerve injury, myocardial infarction, stroke and death, which subject us to a greater risk of being involved in litigation than companies with products used in less critical areas of the body. We may be subject to product liability claims if our products cause, or merely appear to have caused, an injury or death, even if due to physician error. In addition, an injury or death that is caused by the activities of our suppliers, such as those that provide us with components and materials, or by an aspect of a treatment used in combination with our products, such as a complementary drug or anesthesia, may be the basis for a claim against us by patients, hospitals, physicians or others purchasing or using our products, even if our products were not the actual cause of such injury or death. We may choose to settle any claims to avoid fault and complication not due to failure of our products. An adverse outcome involving one of our products could result in reduced market acceptance and demand for all of our products, and could harm our reputation and our ability to market our products in the future. In some circumstances, adverse events arising from or associated with the design, manufacture or marketing of our products could result in the suspension or delay of regulatory reviews of our premarket notifications or applications for marketing. Any of the foregoing problems could disrupt our business and have a material adverse effect on our business, financial condition and results of operations.

Although we carry product liability insurance in the United States and in other countries in which we conduct business, including for clinical trials and product marketing, we can give no assurance that such coverage will be available or adequate to satisfy any claims. Product liability insurance is expensive, subject to significant deductibles and exclusions, and may not be available on acceptable terms, if at all. If we are unable to obtain or maintain insurance at an acceptable cost or on acceptable terms with adequate coverage or otherwise protect against potential product liability claims, we could be exposed to significant liabilities. A product liability claim, recall or other claim with respect to uninsured liabilities or for amounts in excess of insured liabilities could have a material adverse effect on our business, financial condition and results of operations. Defending a suit, regardless of its merit or eventual outcome, could be costly, could divert management's attention from our business and might result in adverse publicity, which could result in reduced acceptance of our products in the market, product recalls or market withdrawals.

We are required to file adverse event reports under Medical Device Reporting, or MDR, regulations with the FDA, which reports are publicly available on the FDA's website. We are required to file MDRs if our products may have caused or contributed to a serious injury or death or malfunctioned in a way that could likely cause or contribute to a serious injury or death if it were to recur. Any such MDR that reports a significant adverse event could result in negative publicity, which could harm our reputation and future sales.

The failure of TCAR to meet patient expectations or the occurrence of adverse events from TCAR could impair our financial performance.

Our future success depends upon patients having an experience with TCAR that meets their expectations in order to increase physician demand for our products as a result of positive feedback, social media and word-of-mouth. Patients may be dissatisfied if their expectations of the procedure and results, among other things, are not met. Despite what we believe to be the safety profile of our products, patients may experience adverse events such as arterial restenosis or dissection, cranial nerve injury, wound complications, transient ischemic attacks, stroke, heart attack, and death. If the results of TCAR do not meet the expectations of patients, or they experience adverse events, it could discourage patients from referring TCAR to others. For example, although we have not received any reports of strokes, deaths or other long-term patient sequelae from the tip detachments that triggered our recent recall, if there were to be patient injury, dissatisfied patients may express negative opinions through social media or we may otherwise suffer reputational damage or become subject to product liability lawsuits. Any failure to meet patient expectations and any resulting negative publicity or lawsuits could harm our reputation and future sales.

We depend on our senior management team and the loss of one or more key employees or an inability to attract and retain highly skilled employees could harm our business.

Our success depends largely on the continued services of key members of our executive management team and others in key management positions. For example, the services of Erica Rogers, our Chief Executive Officer, and Lucas Buchanan, our Chief Financial Officer and Chief Operating Officer, are essential to driving adoption of our products, executing on our corporate strategy and ensuring the continued operations and integrity of financial reporting within our company. In addition, the services of Andrew Davis, our Chief Commercial Officer, are critical to driving the growth in sales of our products. Any of our employees may terminate their employment with us at any time. We do not currently maintain key person life insurance policies on any of our employees. If we lose one or more key employees, we may experience difficulties in competing effectively, developing our technologies and implementing our business strateov.

In addition, our research and development programs, and sales efforts depend on our ability to attract and retain highly skilled engineers and sales professionals. We may not be able to attract or retain qualified engineers and sales professionals in the future due to the competition for qualified personnel. We have from time to time experienced, and we expect to continue to experience, difficulty in hiring and retaining employees with appropriate qualifications. Many of the companies with which we compete for experienced personnel have greater resources than we do. When we hire employees from competitors or other companies, their former employers have previously and may in the future attempt to assert that these employees or we have breached legal obligations, which may result in a diversion of our time and resources and, potentially, damages. In addition, job candidates and existing employees, particularly in the San Francisco Bay Area, often consider the value of the stock awards they receive in connection with their employment along with salary, benefits and other factors. If the perceived benefits of our stock awards decline, either because we are a public company or for other reasons, it may harm our ability to recruit and retain highly skilled employees. If we fail to attract new personnel or fail to retain and motivate our current personnel, our business and future growth prospects would be harmed.

The use, misuse or off-label use of our products may result in injuries that lead to product liability suits, which could be costly to our business.

The ENROUTE stent has been approved by the FDA for the treatment of patients who require carotid revascularization and meet certain treatment parameters. If physicians expand the patient population in which they elect to use our products that is outside of the intended use approved by the FDA, then the use, misuse, or off-label use of our products may result in outcomes and adverse events including stroke, myocardial infarction and death, potentially leading to product liability claims. However, we cannot prevent a physician from using our products for off-label applications or using components or products that are not our products when performing TCAR. In addition, we cannot guarantee that physicians are trained by us or their peers prior to utilizing our products. Complications resulting from the use of our products off-label or use by physicians who have not been trained appropriately, or at all, may expose us to product liability claims and harm our reputation. Moreover, if the FDA determines that our promotional materials or physician training, including our paid consultants' educational materials, constitutes promotion of an off-label use, it could request that we modify our training or promotional materials or subject us to enforcement action, including warning letters, untitled letters, fines, penalties, or seizures. If we are found to have promoted such off-label uses, we may become subject to significant liability. The federal government has levied large civil and criminal fines and/or other penalties against companies for alleged improper promotion and has investigated, prosecuted, and/or enjoined several companies from engaging in off-label promotion.

In addition, if our products are defectively designed, manufactured or labeled, contain defective components or are misused, we may become subject to costly litigation initiated by physicians, hospitals or patients. Product liability claims are especially prevalent in the medical device industry and could harm our reputation, divert management's attention from our core business, be expensive to defend and may result in sizable damage awards against us. Although we maintain product liability insurance, we may not have sufficient insurance coverage for future product liability claims. We may not be able to obtain insurance in amounts or scope sufficient to provide us with adequate coverage against all potential liabilities. Any product liability claims brought against us, with or without merit, could increase our product liability insurance rates or prevent us from securing continuing coverage, harm our reputation, significantly increase our expenses, and reduce product sales. Product liability claims could cause us to incur significant legal fees and deductibles and claims in excess of our insurance coverage would be paid out of cash reserves, harming our financial condition and operating results.

If we are unable to manage the anticipated growth of our business, our future revenue and operating results may be harmed.

Any growth that we experience in the future will require us to expand our sales, general and administrative personnel, manufacturing and distribution operations, and facilities and information technology, or IT, and infrastructure. In addition to the need to scale our organization, future growth will impose significant added responsibilities on management, including

the need to identify, recruit, train and integrate additional employees. Rapid expansion in personnel could mean that less experienced people manufacture, market and sell our products, which could result in inefficiencies and unanticipated costs, reduced quality and disruptions to our operations. In addition, rapid and significant growth may strain our administrative and operational infrastructure. Our ability to manage our business and growth will require us to continue to improve our operational, financial and management controls, reporting systems and procedures. If we are unable to manage our growth effectively, it may be difficult for us to execute our business strategy and our business could be harmed.

As demand for our products or any of our future products increases, we will need to continue to scale our capacity, expand customer service, billing and systems processes and enhance our internal quality assurance program. We cannot assure you that any increases in scale, related improvements and quality assurance will be successfully implemented or that appropriate personnel will be available to facilitate the growth of our business. Failure to implement necessary procedures, transition to new processes or hire the necessary personnel could result in higher costs or inability to meet increased demand. If we encounter difficulty meeting market demand, quality standards or physician expectations, our reputation could be harmed and our business could suffer.

We may need substantial additional funding and may not be able to raise capital when needed, which could force us to delay, reduce or eliminate our product development programs and commercialization efforts.

We believe that our cash and cash equivalents and investments, together with our expected revenue, will be sufficient to meet our capital requirements and fund our operations for at least the next 12 months. However, we have based these estimates on assumptions that may prove to be incorrect, and we could spend our available financial resources much faster than we currently expect. Our future funding requirements will depend on many factors, including:

- · The degree and rate of market acceptance of TCAR and our products;
- · Whether we acquire third-party companies, products or technologies;
- Restructuring, refinancing or repayment of debt and any default by the U.S. government on its debt which could have broad macroeconomic effects that could, among other things, raise our borrowing costs;
- · The scope and timing of investment in our sales force, marketing initiatives and physician training programs;
- The scope, rate of progress and cost of our research and development activities, current or future clinical studies and additional regulatory clearances or approvals;
- The scope and timing of investment in acute ischemic stroke and other neurovascular and cardiac products we may develop;
- · The costs associated with any future product recall that may occur;
- · The costs of attaining, defending and enforcing our intellectual property rights;
- The impact of health epidemics and other outbreaks, such as the COVID-19 pandemic and the spread of new variants, on our business and operations;
- · The emergence of competing technologies or other adverse market developments; and
- · The rate at which we expand internationally.

We may seek to raise additional capital through equity offerings or debt financings and such additional financing may not be available to us on acceptable terms, or at all. In addition, any additional equity or debt financing that we raise may contain terms that are not favorable to us or our stockholders. For example, if we raise funds by issuing equity or equity-linked securities, the issuance of such securities could result in dilution to our stockholders. Any equity securities issued also may provide for rights, preferences or privileges senior to those of holders of our common stock. In addition, the issuance of additional equity securities by us, or the possibility of such issuance, may cause the market price of our common stock to decline.

In addition, the terms of debt securities issued or borrowings could impose significant restrictions on our operations including restrictive covenants, such as limitations on our ability to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on capital stock, make investments and acquisitions, and

enter into transactions with affiliates, and other operating restrictions that could adversely affect our ability to conduct our business.

In the event that we enter into collaborations or licensing arrangements to raise capital, we may be required to accept unfavorable terms, such as relinquishment or licensing of certain technologies or products that we otherwise would seek to develop or commercialize ourselves, or reserve for future potential arrangements when we might otherwise be able to achieve more favorable terms. In addition, we may be forced to work with a partner on one or more of our products or market development programs, which could lower the economic value of those programs to us.

If we are unable to obtain adequate financing on terms satisfactory to us when we require it, we may terminate or delay the development of one or more of our products, delay clinical trials necessary to market our products, or delay establishment of sales and marketing capabilities or other activities necessary to commercialize our products. If this were to occur, our ability to grow and support our business and to respond to market challenges could be significantly limited, which could have a material adverse effect on our business, financial condition and results of operations.

We have a significant amount of debt, which may affect our ability to operate our business and secure additional financing in the future.

As of December 31, 2022, we had an aggregate of approximately \$75.0 million in principal outstanding under our Loan Agreement with Oxford Finance. We must make significant interest-only monthly payments under the Loan Agreement, and the term loans outstanding under the Loan Agreement will begin to amortize in equal monthly installments beginning in July 2026 (unless we elect to extend the interest-only period by another year), which will divert resources from other activities. Our obligations under the Loan Agreement are collateralized by substantially all of our assests and we are subject to customary affirmative and negative covenants, including covenants limiting our ability and the ability of our subsidiaries to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on capital stock, make investments and acquisitions, and enter into transactions with affiliates, in each case subject to customary exceptions for a loan facility of this size and type. The covenants related to the Loan Agreement, as well as any future financing agreements into which we may enter, may restrict our ability to finance our operations and engage in, expand or otherwise pursue our business activities and strategies. While we have not previously breached and are not currently in breach of these or any other covenants contained in our Loan Agreement, there can be no guarantee that we will not breach these covenants in the future. Our ability to comply with these covenants may be affected by events beyond our control, and future breaches of any of these covenants could result in a default under the Loan Agreement. If not waived, future defaults could cause all of the outstanding indebtedness under the Loan Agreement to become immediately due and payable, termination of commitments to extend further credit, a 5% increase in the applicable rate of interest and the exercise by the lender of other rights and remedies provided for under the Loan Agreement. If not waived, futur

We may acquire other companies or technologies, or enter into license agreements, distribution arrangements or strategic partnerships, which could fail to result in a commercial product or generate sales, divert our management's attention, result in additional dilution to our stockholders and otherwise disrupt our operations and harm our operating results.

Although we currently have no agreements or commitments to complete any such transactions, we may in the future seek to acquire, license or invest in businesses, products or technologies that we believe could complement or expand our portfolio, enhance our technical capabilities or otherwise offer growth opportunities. We could also seek to enter into distribution arrangements or strategic partnerships with third parties that we believe could increase our revenue or offer other commercial benefits. However, we cannot assure you that we would be able to successfully complete any acquisition, license agreement or distribution agreement we choose to pursue, or that we would be able to successfully integrate any business or product or technology in a cost-effective and non-disruptive manner. Similarly, we cannot guarantee that we would derive benefits from any distribution arrangement or other strategic partnership. The pursuit of potential acquisition, license or partnering opportunities may divert the attention of management and cause us to incur various costs and expenses in identifying, investigating and pursuing suitable transactions, whether or not they are consummated. We may not be able to identify desirable acquisition targets or strategic partners, or be successful in entering into an agreement with any particular target or partner, or obtain the expected benefits of any acquisition, license, investment or other strategic partnership arrangement.

To date, the growth of our operations has been largely organic, and we have limited experience in acquiring other businesses or technologies. We may not be able to successfully integrate any acquired personnel, operations and technologies, or effectively manage the combined business following an acquisition. Acquisitions could also result in

dilutive issuances of equity securities, the use of our available cash, or the incurrence of debt, which could harm our operating results. In addition, if an acquired business, product or technology fails to meet our expectations, our operating results, business and financial condition may suffer.

Our ability to utilize our net operating loss carryforwards may be limited.

As of December 31, 2022, we had U.S. federal and state net operating loss carryforwards, or NOLs, of \$320.1 million and \$271.5 million, respectively. Our U.S. federal NOLs arising in tax years ending on or before December 31, 2017 are subject to expiration and will begin to expire in 2027 (U.S. federal NOLs, and certain state NOLs, arising in tax years ending after December 31, 2017 are not subject to expiration) and our state NOLs will begin to expire in 2028. We may use these NOLs to offset taxable income for U.S. federal and state income tax purposes. However, Section 382 of the Internal Revenue Code of 1986, as amended, or the Code, and similar state provisions may limit the NOLs we may use in any year for U.S. federal and state income tax purposes in the event of certain changes in ownership of our company. An "ownership change" pursuant to Section 382 of the Code generally occurs if one or more stockholders or groups of stockholders who own at least 5% of a company's stock increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three-year period. Similar rules may apply under state tax laws. We are currently in the process of performing a formal study to determine whether we experienced an ownership change during 2022 or in a prior taxable year. Pending the outcome of this study, we believe we may have experienced at least on "ownership change" in the past and may have experienced others. In addition, future issuances or sales of our stock, including certain transactions involving our stock that are outside of our control, could result in future "ownership changes." "Ownership changes" that have occurred in the past or that may occur in the future could result in the imposition of an annual limit on the amount of pre-ownership changes NOLs and other tax attributes we can use to reduce our taxable income or income tax liability, potentially increasing and accelerating our liability for income taxes, and also potentially causing those tax attributes

Security breaches, loss of data and other disruptions could compromise sensitive information related to our business or our customers or patients, or prevent us from accessing critical information and expose us to liability, which could adversely affect our business and our reputation.

In the ordinary course of our business, we may become exposed to, or collect, store, or otherwise process sensitive data, including procedure-based information and legally-protected health information, credit card, and other financial information, insurance information, and other potentially personally identifiable information. We also store and process sensitive intellectual property and other proprietary business information. We rely on IT systems, networks and services, including internet sites, data hosting and processing facilities and tools, physical security systems and other hardware, software and technical applications and platforms, some of which are managed, hosted, provided and/or used by third parties or their vendors, to assist in conducting our business, and they also face numerous security threats. The ever-increasing use and evolution of technology, including cloud-based computing, creates opportunities for the unintentional dissemination or intentional destruction of confidential information stored in our or our third party providers' systems, portable media or storage devices.

Although we take measures designed to protect sensitive information from unauthorized access or disclosure, our IT and infrastructure, and that of our technology partners and third parties on which we rely, may be vulnerable to breakdown or other damage or interruption from service interruptions, system malfunction, natural disasters, terrorism, war and telecommunication and electrical failures, as well as security breaches and incidents from inadvertent or intentional actions by employees and/or other third parties, or from cyber-attacks by malicious third parties (including supply chain cyber-attacks or the deployment of harmful malware, ransomware, denial-of-service attacks, social engineering and other means to affect service reliability and threaten the confidentiality, integrity and availability of information), which may compromise system infrastructure or lead to the loss, destruction, alteration, prevention of access to, disclosure, or dissemination of, or damage or unauthorized access to, our data (including trade secrets or other confidential information, intellectual property, proprietary business information, and personal information) or data that is processed or maintained on our behalf, or other assets. Although the aggregate impact on our operations and financial condition has not been material to date, we have been the target of events of this nature and expect them to continue as cybersecurity threats have been rapidly evolving in sophistication and becoming more prevalent in the industry. We and the third parties on which we rely may be more susceptible to security breaches and other security incidents due to many of our employees

and employees of our third-party service providers working remotely for some portion of time. Also, Russia's war with Ukraine may subject us and third-party service providers to heightened risks of cybersecurity incidents and security and privacy breaches, including attacks that could materially disrupt our research and development programs or other aspects of our operations. We continue to invest in cybersecurity solutions, highly-qualified security personnel and managed security services with respect to our data and IT in an effort to reduce these risks and continue to monitor our systems on an ongoing basis for any current or potential threats. There can be no assurance, however, that our efforts will prevent breakdowns or breaches to, or incidents or compromises impacting, our third-party providers' databases, systems, or other IT or infrastructure.

Any system or other IT failure, accident or security breach or incident that causes interruptions in our own or in our third-party service providers' operations, or results in data loss, corruption, or unavailability, could result in a material disruption of our research and development programs or other aspects of our operations. In addition, if any disruption or security breach or incident results in loss, destruction, alteration, or unavailability of, or damage or unauthorized access to, our data or applications or unauthorized access to, disclosure, dissemination or other processing of confidential or proprietary information that we or our third-party service providers process, including personal information, we may incur liability as a result, our research and development programs and competitive position may be adversely affected. Any such disruption, failure or security breach or incident could also cause us to incur additional costs to respond to and otherwise address such disruption, failure or security breach or incident. In the event of any such disruption, failure or security breach or incident, or any perception that one has occurred, we could be exposed to claims, demands, and litigation from private parties, and governmental investigations and other proceedings and we could be subject to significant fines or penalties. We expect to incur significant costs in an effort to detect and prevent security breaches and incidents, and we may face increased costs and requirements to expend substantial resources in the event of an actual or perceived security breach or incident.

Our insurance policies may not be adequate to compensate us for the potential losses arising from any such disruption, failure or security breach or incident. In addition, such insurance may not be available to us in the future on economically reasonable terms, or at all. Further, our insurance may not cover all claims made against us and could have high deductibles in any event, and defending a suit, regardless of its merit, could be costly and divert management attention.

As international expansion of our business occurs, it will expose us to market, regulatory, political, operational, financial, legal and economic risks associated with doing business outside of the United States.

Our long-term strategy is to increase our international presence, including but not limited to securing regulatory approvals and reimbursement in Japan and China. For example, in the fourth quarter of 2022, we received approval from the Japan Association for the Advancement of Medical Equipment for our ENROUTE NPS and ENROUTE stent. This strategy may include establishing and maintaining physician outreach and education capabilities outside of the United States and expanding our relationships with international distributors, providers and payers. Doing business internationally involves a number of risks, including:

- · Difficulties in staffing and managing our international operations;
- Multiple, conflicting and changing laws and regulations such as tax laws, privacy laws, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses;
- · Reduced or varied protection for intellectual property rights in some countries;
- Obtaining regulatory clearance where required for our products in various countries;
- · Requirements to maintain data and the processing of that data on servers located within such countries;
- Complexities associated with obtaining and maintaining adequate reimbursement for our products and managing multiple payer reimbursement regimes, government payers or patient self-pay systems;
- · Difficulties in adequately training and managing international distributors;
- Limits on our ability to penetrate international markets if we are required to manufacture our products locally;
- Financial risks, such as longer payment cycles, difficulty collecting accounts receivable, foreign tax laws and complexities of foreign value-added tax systems, the effect of local and regional financial pressures on demand and payment for our products and exposure to foreign currency exchange rate fluctuations;

- · Restrictions on the site-of-service for use of our products and the economics related thereto for physicians, providers and payers;
- Natural disasters, political and economic instability, including wars, terrorism, political unrest, outbreak of disease, boycotts, curtailment of trade and other market restrictions; and
- Regulatory and compliance risks that relate to maintaining accurate information and control over activities subject to regulation under the United States Foreign Corrupt Practices
 Act of 1977, or FCPA, U.K. Bribery Act of 2010 and comparable laws and regulations in other countries.

Any of these factors could significantly harm our future international expansion and operations and, consequently, have a material adverse effect on our business, financial condition and results of operations.

Additionally, pursuant to the terms of our existing intellectual property license and supply agreement with Cordis, there are certain restrictions on our ability to sell the ENROUTE stent through select direct competitors of Cordis. If we are unable to locate international distributors that are not select direct competitors to Cordis, to market and sell our ENROUTE stent, our ability to expand our business internationally may be harmed, which could have a material adverse effect on our business, financial condition and results of operations.

We could be adversely affected by violations of the FCPA and similar worldwide anti-bribery laws and any investigation, and the outcome of any investigation, by government agencies of possible violations by us of the FCPA could have a material adverse effect on our business.

The FCPA and similar worldwide anti-bribery laws prohibit companies and their intermediaries from corruptly providing any benefits to government officials for the purpose of obtaining or retaining business. We recently completed the process of further enhancing policies and procedures with the intent to help ensure compliance with these laws. In the future, we may operate in parts of the world that have experienced governmental corruption to some degree. Moreover, because of the significant role government entities play in the regulation of many foreign healthcare markets, we may be exposed to heightened FCPA and similar risks arising from our efforts to seek regulatory approval of and reimbursement for our products in such countries. We cannot assure you that our internal control policies and procedures will protect us from improper acts committed by our employees or agents. Violations of these laws, or allegations of such violations, would significantly disrupt our business and have a material adverse effect on our business, financial condition and results of operations.

We are exposed to the risk of fraud or other misconduct by our employees, collaborators, vendors, principal investigators, consultants, independent contractors, and commercial partners.

It is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with governmental laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant inpact on our business, including the imposition of significant fines or other sanctions. While we are unaware of any current matters, we are unable to predict whether we will be subject to actions under the FCPA or a similar state law, or the impact of such actions. Whether or not we are successful in defending against any such actions or investigations, we could incur substantial costs, including legal fees, and divert the attention of management in defending ourselves against any of these claims or investigations, which could have a material adverse effect on our business and financial condition.

Risks Related to Our Intellectual Property

We may become a party to intellectual property litigation or administrative proceedings that could be costly and could interfere with our ability to sell and market our products.

The medical device industry has been characterized by extensive litigation regarding patents, trademarks, trade secrets, and other intellectual property rights, and companies in the industry have used intellectual property litigation to gain a competitive advantage. It is possible that U.S. and foreign patents and pending patent applications or trademarks controlled by third parties may be alleged to cover our products, or that we may be accused of misappropriating third parties' trade secrets. Additionally, our products include components that we purchase from vendors, and may include design components that are outside of our direct control. Our competitors, many of which have substantially greater resources and have made substantial investments in patent portfolios, trade secrets, trademarks, and competing technologies, may have applied for or obtained, or may in the future apply for or obtain, patents or trademarks that will prevent, limit or otherwise interfere with our ability to make, use, sell and/or export our products or to use product names.

Moreover, in recent years, individuals and groups that are non-practicing entities have purchased patents and other intellectual property assets for the purpose of making claims of infringement in order to extract settlements. From time to time, we may receive threatening letters, notices or "invitations to license," or may be the subject of claims that our products and business operations infringe or violate the intellectual property rights of others. The defense of these matters can be time consuming, costly to defend in litigation, divert management's attention and resources, damage our reputation and brand and cause us to incur significant expenses or make substantial payments. Vendors from whom we purchase hardware or software may not indemnify us in the event that such hardware or software is accused of infringing a third-party's patent or trademark or of misappropriating a third-party's trade secret.

Since some patent applications are confidential for a period of time after filing, we cannot be certain that we were the first to file any patent application related to our products. Competitors may also contest our patents, if issued, by showing the patent examiner that the invention was not novel or was obvious. In litigation, a competitor could claim that our patents, if issued, are not valid for a number of reasons. If a court agrees, we would lose our rights to those challenged patents.

In addition, we may in the future be subject to claims by our former employees or consultants asserting an ownership right in our patents or patent applications, as a result of the work they performed on our behalf. Although we generally require all of our employees and consultants and any other partners or collaborators who have access to our proprietary know-how, information or technology to assign or grant similar rights to their inventions to us, we cannot be certain that we have executed such agreements with all parties who may have contributed to our intellectual property, nor can we be certain that our agreements with such parties will be upheld in the face of a potential challenge, or that they will not be breached, for which we may not have an adequate remedy.

Further, if patents, trademarks, or trade secrets are successfully asserted against us, this may harm our business and result in injunctions preventing us from selling our products, license fees, damages and the payment of attorney fees and court costs. In addition, if we are found to willfully infringe third-party patents or trademarks or to have misappropriated trade secrets, we could be required to pay treble damages in addition to other penalties. Although patent, trademark, trade secret, and other intellectual property disputes in the medical device area have often been settled through licensing or similar arrangements, costs associated with such arrangements may be substantial and could include ongoing royalties. We may be unable to obtain necessary licenses on satisfactory terms, if at all. If we do not obtain necessary licenses, we may not be able to redesign our products to avoid infringement.

Similarly, interference or derivation proceedings provoked by third parties or brought by the U.S. Patent and Trademark Office, or USPTO, may be necessary to determine priority with respect to our patents, patent applications, trademarks or trademark applications. We may also become involved in other proceedings, such as reexamination, inter parties review, derivation or opposition proceedings before the USPTO or other jurisdictional body relating to our intellectual property rights or the intellectual property rights of others. Adverse determinations in a judicial or administrative proceeding or failure to obtain necessary licenses could prevent us from manufacturing our products or using product names, which would have a significant adverse impact on our business, financial condition and results of operations.

Additionally, we may file lawsuits or initiate other proceedings to protect or enforce our patents, trademarks or other intellectual property rights, which could be expensive, time consuming and unsuccessful. Competitors may infringe our issued patents, trademarks or other intellectual property. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time-consuming. Any claims we assert against perceived infringers could provoke these parties to assert counterclaims against us alleging that we infringe their intellectual property. In addition, in a patent infringement proceeding, a court may decide that a patent of ours is invalid or unenforceable, in whole or in part, construe the patent's claims narrowly or refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. Furthermore, even if our patents are found to be valid and infringed, a court may refuse to grant injunctive relief against the infringer and instead grant us monetary damages and/or ongoing royalties. Such monetary compensation may be insufficient to adequately offset the damage to our business caused by the infringer's competition in the market. An adverse result in any litigation proceeding could put one or more of our patents at risk of being invalidated or interpreted narrowly, which could adversely affect our competitive business position, financial condition and results of operations.

Our success depends on our ability to obtain, maintain and protect our intellectual property rights.

In order to remain competitive, we must develop, maintain and protect the proprietary aspects of our brands, technologies and data. We rely on a combination of contractual provisions, confidentiality procedures and patent, copyright, trademark, trade secret and other intellectual property laws to protect the proprietary aspects of our brands, technologies and data. These legal measures afford only limited protection, and competitors or others may gain access to or use our intellectual property and proprietary information. Our success depends, in part, on preserving our trade secrets, maintaining the security of our data and know-how and obtaining and maintaining other intellectual property rights. We

may not be able to obtain or maintain intellectual property or other proprietary rights necessary to our business or in a form that provides us with a competitive advantage. In addition, our trade secrets, data and know-how could be subject to unauthorized use, misappropriation, or disclosure to unauthorized parties, despite our efforts to enter into confidentiality agreements with our employees, consultants, clients and other vendors who have access to such information, and could otherwise become known or be independently discovered by third parties. Our intellectual property, including trademarks, could be challenged, invalidated, infringed, and circumvented by third parties, and our trademarks could also be diluted, declared generic or found to be infringing on other marks. If any of the foregoing occurs, we could be forced to re-brand our products, resulting in loss of brand recognition and requiring us to devote resources to advertising and marketing new brands, and suffer other competitive harm. Third parties may also adopt trademarks similar to ours, which could harm our brand identity and lead to market confusion. Failure to obtain and maintain intellectual property rights necessary to our business and failure to protect, monitor and control the use of our intellectual property rights could negatively impact our ability to compete and cause us to incur significant expenses. The intellectual property laws and other statutory and contractual arrangements in the United States and other jurisdictions we depend upon may not provide sufficient protection in the future to prevent the infringement, use, violation or misappropriation of our trademarks, data, technology and other intellectual property and services, and may not provide an adequate remedy if our intellectual property rights are infringed, misappropriated or otherwise violated.

We rely, in part, on our ability to obtain, maintain, expand, enforce, and defend the scope of our intellectual property portfolio or other proprietary rights, including the amount and timing of any payments we may be required to make in connection with the licensing, filing, defense and enforcement of any patents or other intellectual property rights. The process of applying for and obtaining a patent is expensive, time consuming and complex, and we may not be able to file, prosecute, maintain, enforce or license all necessary or desirable patent applications at a reasonable cost, in a timely manner, or in all jurisdictions where protection may be commercially advantageous, or we may not be able to protect our proprietary rights at all. Despite our efforts to protect our proprietary rights, unauthorized parties may be able to obtain and use information that we regard as proprietary. In addition, the issuance of a patent does not ensure that it is valid or enforceable, so even if we obtain patents, they may not be valid or enforceable against third parties. Our patent applications may not result in issued patents and our patents may not be sufficiently broad to protect our technology. Moreover, even if we are able to obtain patent protection, such patent protection may be of insufficient scope to achieve our business objectives. Issued patents may be challenged, narrowed, invalidated or circumvented. Decisions by courts and governmental patent agencies may introduce uncertainty in the enforceability or scope of patents owned by or licensed to us. Furthermore, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our own products and practicing our own technology. Alternatively, third parties may seek approval to market their own products similar to or otherwise competitive with our products. In these circumstances, we may need to defend and/or assert our patents, including by filing lawsuits alleging p

The term of individual patents depends on the legal term for patents in the countries in which they are granted. In most countries, including the United States, the patent term is 20 years from the earliest claimed filing date of a nonprovisional patent application in the applicable country. We cannot assure that patents will be issued from any of our pending applications or that, if patents are issued, they will be of sufficient scope or strength to provide meaningful protection for our technology. Notwithstanding the scope of the patent protection available to us, a competitor could develop treatment methods or devices that are not covered by our patents. Furthermore, numerous U.S. and foreign-issued patents and patent applications owned by third parties exist in the fields in which we are developing products. Because patent applications can take many years to issue, there may be applications unknown to us, which applications may later result in issued patents that our existing or future products or technologies may be alleged to infringe.

There has been substantial litigation regarding patent and other intellectual property rights in the medical device industry. In the future, we may need to engage in litigation to enforce patents issued or licensed to us, to protect our trade secrets or know-how, to defend against claims of infringement of the rights of others or to determine the scope and validity of the proprietary rights of others. Litigation could be costly and could divert our attention from other functions and responsibilities. Furthermore, even if our patents are found to be valid and infringed, a court may refuse to grant injunctive relief against the infringer and instead grant us monetary damages and/or ongoing royalties. Such monetary compensation may be insufficient to adequately offset the damage to our business caused by the infringer's competition in the market."

Adverse determinations in litigation could subject us to significant liabilities to third parties, could require us to seek licenses from third parties or could prevent us from manufacturing, selling or using the product, any of which could severely harm our business.

If we are unable to protect the confidentiality of our other proprietary information, our business and competitive position may be harmed.

In addition to patent protection, we also rely on other proprietary rights, including protection of trade secrets, and other proprietary information that is not patentable or that we elect not to patent. However, trade secrets can be difficult to protect and some courts are less willing or unwilling to protect trade secrets. To maintain the confidentiality of our trade secrets and proprietary information, we rely heavily on confidentiality provisions that we have in contracts with our employees, consultants, collaborators and others upon the commencement of their relationship with us. We cannot guarantee that we have entered into such agreements with each party that may have or have had access to our trade secrets or proprietary technology and processes. We may not be able to prevent the unauthorized disclosure or use of our technical knowledge or other trade secrets by such third parties, despite the existence generally of these confidentiality restrictions. These contracts may not provide meaningful protection for our trade secrets, know-how, or other proprietary information in the event of any unauthorized use, misappropriation, or disclosure of such trade secrets, know-how, or other proprietary information. There can be no assurance that such third parties will not breach their agreements with us, that we will have adequate remedies for any breach, or that our trade secrets will not otherwise become known or independently developed by competitors. Despite the protections we do place on our intellectual property or other proprietary rights, monitoring unauthorized use and disclosure of our intellectual property is difficult, and we do not know whether the steps we have taken to protect our intellectual property or other proprietary rights will be adequate. In addition, the laws of many foreign countries may not protect our intellectual property or other proprietary rights to the same extent as the laws of the United States. Consequently, we may be unable to prevent our proprietary technology from being explo

To the extent our intellectual property or other proprietary information protection is incomplete, we are exposed to a greater risk of direct competition. A third party could, without authorization, copy or otherwise obtain and use our products or technology, or develop similar technology. Our competitors could purchase our products and attempt to replicate some or all of the competitive advantages we derive from our development efforts or design around our protected technology. Our failure to secure, protect and enforce our intellectual property rights could substantially harm the value of our products, brand and business. The theft or unauthorized use or publication of our trade secrets and other confidential business information could reduce the differentiation of our products and harm our business, the value of our investment in research and development or acquisitions could be reduced and third parties might make claims against us related to losses of their confidential or proprietary information. Any of the foregoing could materially and adversely affect our business, financial condition and results of operations.

Further, it is possible that others will independently develop the same or similar technology or otherwise obtain access to our unpatented technology, and in such cases we could not assert any trade secret rights against such parties. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our trade secret rights and related confidentiality and nondisclosure provisions. If we fail to obtain or maintain trade secret protection, or if our competitors obtain our trade secrets or independently develop technology similar to ours or competing technologies, our competitive market position could be materially and adversely affected. In addition, some courts are less willing or unwilling to protect trade secrets and agreement terms that address non-competition are difficult to enforce in many jurisdictions and might not be enforceable in certain cases.

We also seek to preserve the integrity and confidentiality of our data and other confidential information by maintaining physical security of our premises and physical and electronic security of our information technology systems. While we have confidence in these individuals, organizations and systems, agreements or security measures may be breached and detecting the disclosure or misappropriation of confidential information and enforcing a claim that a party illegally disclosed or misappropriated confidential information is difficult, expensive and time-consuming, and the outcome is unpredictable. Further, we may not be able to obtain adequate remedies for any breach.

Obtaining and maintaining patent protection depends on compliance with various procedural, document submission, fee payment and other requirements imposed by governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.

The USPTO and various foreign governmental patent agencies require compliance with a number of procedural, documentary, fee payment and other similar provisions during the patent application process. In addition, periodic maintenance fees on issued patents often must be paid to the USPTO and foreign patent agencies over the lifetime of the patent. While an unintentional lapse can in many cases be cured by payment of a late fee or by other means in accordance with the applicable rules, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. Non-compliance events that could result in abandonment or lapse of a patent or patent application include, but are not limited to, failure to respond to official actions within prescribed time limits, non-payment of fees and failure to properly legalize

and submit formal documents. If we fail to maintain the patents and patent applications covering our products, we may not be able to stop a competitor from marketing products that are the same as or similar to our products, which would have a material adverse effect on our business.

We may not be able to protect our intellectual property rights throughout the world.

A company may attempt to commercialize competing products utilizing our proprietary design, trademarks or tradenames in foreign countries where we do not have sufficient patent protection and where legal recourse may be limited. This may have a significant commercial impact on our foreign business operations.

Filing, prosecuting and defending patents or trademarks on our current and future products in all countries throughout the world would be prohibitively expensive. The requirements for patentability and trademarking may differ in certain countries, particularly developing countries. The laws of some foreign countries do not protect intellectual property rights to the same extent as laws in the United States. Consequently, we may not be able to prevent third parties from utilizing our inventions and trademarks in all countries outside the United States. Competitors may use our technologies or trademarks in jurisdictions where we have not obtained patent or trademark protection to develop or market their own products and further, may export otherwise infringing products to territories where we have patent and trademark protection, but enforcement on infringing activities is inadequate. These products or trademarks may compete with our products or trademarks, and our patents, trademarks or other intellectual property rights may not be effective or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trademarks and other intellectual property protection, which could make it difficult for us to stop the infringement of our patents and trademarks or marketing of competing products in violation of our proprietary rights generally. Proceedings to enforce our patent and trademarks rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents and trademarks at risk of being invalidated or interpreted narrowly and our patent or trademark applications at risk, and could provoke third parties to assert claims against us. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. In addition, certain countries in Europe and certain developing countries, including India and China, have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In those countries, we may have limited remedies if our patents are infringed or if we are compelled to grant a license to our patents to a third party, which could materially diminish the value of those patents. This could limit our potential revenue opportunities. Accordingly, our efforts to enforce our intellectual property rights may be adversely affected by unforeseen changes in foreign intellectual property laws.

We may be subject to claims that we or our employees have misappropriated the intellectual property of a third party, including trade secrets or know-how, or are in breach of non-competition or non-solicitation agreements with our competitors and third parties may claim an ownership interest in intellectual property we regard as our own.

Many of our employees and consultants were previously employed at or engaged by other medical device, biotechnology or pharmaceutical companies, including our competitors or potential competitors. Some of these employees, consultants and contractors, may have executed proprietary rights, non-disclosure and non-competition agreements in connection with such previous employment. Although we try to ensure that our employees and consultants do not use the intellectual property, proprietary information, know-how or trade secrets of others in their work for us, we may be subject to claims that we or these individuals have, inadvertently or otherwise, misappropriated the intellectual property or disclosed the alleged trade secrets or other proprietary information, of these former employers or competitors.

Additionally, we may be subject to claims from third parties challenging our ownership interest in intellectual property we regard as our own, based on claims that our employees or consultants have breached an obligation to assign inventions to another employer, to a former employer, or to another person or entity. Litigation may be necessary to defend against any other claims, and it may be necessary or we may desire to enter into a license to settle any such claim; however, there can be no assurance that we would be able to obtain a license on commercially reasonable terms, if at all. If our defense to those claims fails, in addition to paying monetary damages, a court could prohibit us from using technologies or features that are essential to our products, if such technologies or features are found to incorporate or be derived from the trade secrets or other proprietary information of the former employers.

An inability to incorporate technologies or features that are important or essential to our products could have a material adverse effect on our business, financial condition and results of operations, and may prevent us from selling our

products. In addition, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against these claims, litigation could result in substantial costs and could be a distraction to management. Any litigation or the threat thereof may adversely affect our ability to hire employees or contract with independent sales representatives. A loss of key personnel or their work product could hamper or prevent our ability to commercialize our products, which could have an adverse effect on our business, financial condition and results of operations.

Changes in patent law could diminish the value of patents in general, thereby impairing our ability to protect our existing and future products.

Patent reform legislation could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. In 2011, the Leahy-Smith Act, was signed into law. The Leahy-Smith Act includes a number of significant changes to U.S. patent law. These include provisions that affect the way patent applications are prosecuted and also may affect patent litigation. These also include provisions that switched the United States from a "first-to-invent" system to a "first-to-file" system, allow third-party submission of prior art to the USPTO during patent prosecution and set forth additional procedures to attack the validity of a patent by the USPTO administered post grant proceedings. Under a first-to-file system, assuming the other requirements for patentability are met, the first inventor to file a patent application generally will be entitled to the patent on an invention regardless of whether another inventor had made the invention earlier. The USPTO developed new regulations and procedures to govern administration of the Leahy-Smith Act, and many of the substantive changes to patent law associated with the Leahy-Smith Act, and in particular, the first to file provisions, only became effective in 2013. Accordingly, it is not clear what, if any, impact the Leahy-Smith Act will have on the operation of our business. The Leahy-Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have a material adverse effect on our business, financial condition and results of operations.

Further, the Leahy-Smith Act created new procedures to challenge the validity of issued patents in the United States, including post-grant review and inter partes review proceedings, which some third parties have been using to cause the cancellation of selected or all claims of issued patents of competitors. For a patent with an effective filing date of March 16, 2013 or later, a petition for post-grant review can be filed by a third party in a nine-month window from issuance of the patent. A petition for inter partes review can be filed immediately following the issuance of a patent if the patent has an effective filing date prior to March 16, 2013. A petition for inter partes review can be filed after the nine-month period for filing a post-grant review petition has expired for a patent with an effective filing date of March 16, 2013 or later. Post-grant review proceedings can be brought on any ground of invalidity, whereas inter partes review proceedings can only raise an invalidity challenge based on published prior art and patents. These adversarial actions at the USPTO review patent claims without the presumption of validity afforded to U.S. patents in lawsuits in U.S. federal courts, and use a lower burden of proof than used in litigation in U.S. federal courts. Therefore, it is generally considered easier for a competitor or third party to have a U.S. patent invalidated in a USPTO post-grant review or inter partes review proceeding than invalidated in a litigation in a U.S. federal court. If any of our patents are challenged by a third party in such a USPTO proceeding, there is no guarantee that we, our licensors or collaborators will be successful in defending the patent, which would result in a loss of the challenged patent right to us.

In addition, patent reform legislation may pass in the future that could lead to additional uncertainties and increased costs surrounding the prosecution, enforcement and defense of our patents and applications. Furthermore, the U.S. Supreme Court and the U.S. Court of Appeals for the Federal Circuit have made, and will likely continue to make, changes in how the patent laws of the United States are interpreted. Similarly, foreign courts have made, and will likely continue to make, changes in how the patent laws in their respective jurisdictions are interpreted. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by U.S. and foreign legislative bodies. Those changes may materially affect our patents or patent applications and our ability to obtain additional patent protection in the future.

If our trademarks and tradenames are not adequately protected, then we may not be able to build name recognition in our markets and our business may be adversely affected.

We rely on trademarks, service marks, tradenames and brand names to distinguish our products from the products of our competitors, and have registered or applied to register these trademarks. We cannot assure you that our trademark applications will be approved. During trademark registration proceedings, we may receive rejections. Although we are given an opportunity to respond to those rejections, we may be unable to overcome such rejections. In addition, in proceedings before the USPTO and comparable agencies in many foreign jurisdictions, third parties are given an opportunity to oppose pending trademark applications and to seek to cancel registered trademarks. Opposition or cancellation proceedings may be filed against our trademarks, and our trademarks may not survive such proceedings. In the event that our trademarks are successfully challenged, we could be forced to rebrand our products, which could result in loss of brand recognition and could require us to devote resources towards advertising and marketing new brands and

managing through regulatory implications such as relabeling. At times, competitors may adopt trade names or trademarks similar to ours, thereby impeding our ability to build brand identity and possibly leading to market confusion. In other cases, our competitors may associate our marks, such as TCAR, with their products and infringe upon our intellectual property as a result. Certain of our current or future trademarks may become so well known by the public that their use becomes generic and they lose trademark protection. Over the long term, if we are unable to establish name recognition based on our trademarks and trade names, then we may not be able to compete effectively and our business, financial condition and results of operations may be adversely affected.

Risks Related to Government Regulation

Healthcare policy changes, including recently enacted legislation reforming the U.S. healthcare system, could harm our business, financial condition and results of operations.

In the United States, there have been and continue to be a number of legislative initiatives to contain healthcare costs. In March 2010, the Affordable Care Act was enacted in the United States, which made a number of substantial changes in the way healthcare is financed by both governmental and private insurers. Among other ways in which it may affect our business, the Affordable Care Act:

- Established a new Patient-Centered Outcomes Research Institute to oversee and identify priorities in comparative clinical effectiveness research in an effort to coordinate and develop such research;
- Implemented payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians and other providers to improve the coordination, quality and efficiency of certain healthcare services through bundled payment models; and
- · Expanded the eligibility criteria for Medicaid programs.

The taxes imposed by the Affordable Care Act and the expansion in the government's role in the U.S. healthcare industry may result in decreased sale of our products and, lower reimbursement by payers for our products, all of which may have a material adverse effect on our business, financial condition and results of operations. Since its enactment, there have been judicial, executive, and Congressional challenges to certain aspects of the Affordable Care Act. On June 17, 2021, the U.S. Supreme Court dismissed the most recent judicial challenge to the ACA without specifically ruling on the constitutionality of the ACA. It is unclear how the other healthcare reform measures of the Biden administration or future litigation will impact the ACA or our business.

In addition, other legislative changes have been proposed and adopted since the Affordable Care Act was enacted. On August 2, 2011, the Budget Control Act of 2011 was signed into law, which, among other things, reduced Medicare payments to providers by 2% per fiscal year, effective on April 1, 2013 and, due to subsequent legislative amendments to the statute, will remain in effect through 2031, with the exception of a temporary suspension implemented under various COVID-19 relief legislation from May 1, 2020 through the end of March 31, 2022, unless additional Congressional action is taken. Under current legislation, starting on April 1, 2022, the actual reduction in Medicare payments can vary from 1% in 2022 to up to 4% in the final fiscal year of the sequester.

On January 2, 2013, the American Taxpayer Relief Act of 2012 was signed into law, which, among other things, reduced Medicare payments to several providers, including hospitals, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years. The Medicare Access and CHIP Reauthorization Act of 2015, or MACRA, enacted on April 16, 2015, repealed the formula by which Medicare made annual payment adjustments to physicians and replaced the former formula with fixed annual updates and a new system of incentive payments which began in 2019 that are based on various performance measures and physicians' participation in alternative payment models such as accountable care organizations. It is unclear what effect new quality and payment programs, such as MACRA, may have on our business, financial condition, results of operations or cash flows.

We expect additional state and federal healthcare policies and reform measures to be adopted in the future. Any of these could make it more difficult and costly for us to obtain regulatory clearances or approvals for our products or to manufacture, market or distribute our products after clearance or approval is obtained. They could result in reduced demand for our products or result in additional pricing pressure. Any such reforms could have a material adverse effect on our industry generally and on our customers. Any changes of, or uncertainty with respect to, future coverage or reimbursement rates could affect demand for our products, which in turn could impact our ability to successfully commercialize our products and could have an adverse material effect on our business, financial condition and results of operations. Changes and reforms in the European Union and other countries where we may decide to commercialize could have similar effects.

Our products have in the past and could in the future be subject to product recalls that could harm our reputation or increase the probability of inspection by, or additional scrutiny from, the FDA or other relevant regulatory bodies.

The FDA and similar governmental authorities in other countries have the authority to require the recall of commercialized products in the event of material regulatory deficiencies or defects in design or manufacture. A government mandated or voluntary recall by us has occurred, and could occur again in the future, as a result of component failures, manufacturing errors or design or labeling defects. In January 2021, we announced the voluntary recall of certain lots of our ENROUTE Transcarotid Stent System. Additional recalls of our products would divert managerial attention, be expensive, harm our reputation with customers, result in additional scrutiny from the FDA or other relevant regulatory bodies and harm our financial condition and results of operations. Additional recall announcements could also negatively affect our stock price.

Changes in the CMS fee schedules may affect our hospital customers and thereby harm our revenue and operating results.

Government payers, such as Centers for Medicare and Medicaid Services, or CMS, as well as insurers, have increased their efforts to control the cost, utilization and delivery of healthcare services. From time to time, the U.S. Congress has considered and implemented changes in the CMS fee schedules in conjunction with budgetary legislation. Reductions of reimbursement by Medicare or Medicaid for procedures that use our products or changes in policy regarding coverage of these procedures, such as adding requirements for payment, or prior authorizations, may be implemented from time to time. Reductions in the reimbursement rates and changes in payment policies of other third-party payers may occur as well. Similar changes in the past have resulted in reduced payments for procedures that use medical device products as well as added costs and have added more complex regulatory and administrative requirements. Further changes in federal, state, local and third-party payer regulations or policies may have a material adverse impact on the demand for our products and on our business. Actions by agencies regulating insurance or changes in other laws, regulations, or policies may also have a material adverse effect on our business, financial condition and results of operations.

If we fail to comply with broad-based healthcare and other governmental regulations, we could face substantial fines and penalties and our business, results of operations and financial condition could be adversely affected.

The products we offer are highly regulated, and there can be no assurance that the regulatory environment in which we operate will not change significantly and adversely in the future. Our arrangements with physicians, hospitals and medical centers will expose us to broadly applicable fraud and abuse and other laws and regulations that may restrict the financial arrangements and relationships through which we market, sell and distribute our products. Our employees, consultants, and commercial partners may engage in misconduct or other improper activities, including non-compliance with regulatory standards and requirements. Federal and state healthcare laws and regulations that may affect our ability to conduct business, include, without limitation:

- · Federal and state laws and regulations regarding billing and claims payment applicable to TCAR and regulatory agencies enforcing those laws and regulations;
- FDA prohibitions against the advertisement, promotion and labeling of our products for off-label uses, or uses outside the specific indications approved by the FDA;
- The federal Anti-Kickback Statute, which broadly prohibits, among other things, any person from knowingly and willfully offering, soliciting, receiving or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs, such as the CMS programs. A person or entity does not need to have actual knowledge of the statute or specific intent to violate it to have committed a violation. Moreover, the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the federal civil False Claims Act. Violations of the federal Anti-Kickback Statute may result in civil monetary penalties per violation, plus up to three times the remuneration involved. Civil penalties for such conduct can further be assessed under the federal False Claims Act. Violations can also result in criminal penalties, including criminal fines and imprisonment. Similarly, violations can result in mandatory exclusion from participation in government healthcare programs, including Medicare and Medicaid;
- The federal False Claims Act, which prohibits, among other things, individuals or entities from knowingly presenting, or causing to be presented, false claims, or knowingly using false statements, to obtain payment from

the federal government. These laws can apply to manufacturers who provide inaccurate information on coverage, coding, and reimbursement of their products to persons who bill third-party payers. Private individuals can bring False Claims Act "qui tam" actions, on behalf of the government and such individuals, commonly known as "whistleblowers," may share in amounts paid by the entity to the government in fines or settlement. When an entity is determined to have violated the federal civil False Claims Act, the government may impose civil fines and penalties for each false claim, plus treble damages, and exclude the entity from participation in Medicare, Medicaid and other federal healthcare programs;

- Federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making, or causing to be made, false statements relating to healthcare matters;
- The federal Civil Monetary Penalties Law, which prohibits, among other things, offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier;
- . The FCPA, the U.K. Bribery Act of 2010, and other local anti-corruption laws that apply to our international activities;
- The federal Physician Payment Sunshine Act, or Open Payments, created under the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconcilitation Act, or Affordable Care Act, and its implementing regulations, which requires applicable manufacturers of drugs, medical devices, biologicals and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program to report annually to the U.S. Department of Health and Human Services, or HHS, information related to payments and other transfers of value made to covered recipients, including physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain non-physician healthcare professionals (such as physician assistants and nurse practitioners, among others), and teaching hospitals, as well as information regarding ownership and investment interests held by physicians and their immediate family members. Applicable manufacturers are required to submit annual reports to CMS. Our failure to submit required information on time may result in civil monetary penalties with additional amounts for "knowing failures", for all payments, transfers of value or ownership or investment interests that are not timely, accurately, and completely reported in an annual submission, and may result in liability under other federal laws or regulations; and
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, and its implementing regulations, which impose certain requirements relating to the privacy, security and transmission of individually identifiable health information; HIPAA also created criminal liability for knowingly and willfully falsifying or concealing a material fact or making a materially false statement in connection with the delivery of or payment for healthcare benefits, items or services. Failure to comply with the HIPAA privacy and security standards when applicable can result in civil monetary penalties, and, in certain circumstances, criminal penalties including fines and/or imprisonment. State attorneys general can also bring a civil action to enjoin a HIPAA violation or to obtain statutory damages on behalf of residents of his or her state.

Analogous state and foreign law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payer, including commercial insurers or patients; state laws that require device companies to comply with the industry's voluntary compliance guidelines and the applicable compliance guidance promulgated by the federal government or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require device manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; consumer protection and unfair competition laws, which broadly regulate marketplace activities and activities that potentially harm customers, foreign and state laws, including the E.U. General Data Protection Regulation, or GDPR, governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and may not have the same effect, thus complicating compliance efforts; and state laws related to insurance fraud in the case of claims involving private insurers.

Because of the breadth of these laws and the narrowness of available statutory and regulatory exemptions or safe harbors, it is possible that some of our activities, such as stock-option compensation paid to physicians, could be subject to challenge under one or more of such laws. Any action brought against us for violations of these laws or regulations, even if successfully defended, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. We may be subject to private "qui tam" actions brought by individual whistleblowers on behalf of the federal or state governments.

The growth of our business and sales organization and our planned expansion outside of the United States may increase the potential of violating these laws or our internal policies and procedures. The risk of our being found in violation of these or other laws and regulations is further increased by the fact that many have not been fully interpreted by the regulatory authorities or the courts, and their provisions are open to a variety of interpretations. Any action brought against us for violation of these or other laws or regulations, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of the federal, state and foreign laws described above or any other current or future fraud and abuse or other healthcare laws and regulations that apply to us, we may be subject to penalties, including significant criminal, civil, and administrative penalties, damages, fines, imprisonment, for individuals, exclusion from participation in government programs, such as Medicare and Medicaid, and we could be required to curtail or cease our operations. Any of the foregoing consequences could seriously harm our business and our financial results

Changes in tax laws could have a material adverse effect on our business, cash flow, results of operations or financial conditions.

We are subject to tax laws, regulations, and policies of the several taxing jurisdictions. Changes in tax laws, as well as other factors, could cause us to experience fluctuations in our tax obligations and effective tax rates and otherwise adversely affect our tax positions and/or our tax liabilities. For example, in August 2022 the United States enacted a 1% excise tax on stock buybacks and a 15% alternative minimum tax on adjusted financial statement income for certain large corporations as part of the Inflation Reduction Act of 2022. Further, many countries, and organizations such as the Organization for Economic Cooperation and Development have proposed implementing changes to existing tax laws, including a proposed 15% global minimum tax. Any of these developments or changes in federal, state, or international tax laws or tax rulings could adversely affect our effective tax rate and our operating results. There can be no assurance that our effective tax rates, tax payments, or tax credits and incentives will not be adversely affected by these or other developments or changes in law.

If we fail to obtain and maintain necessary regulatory clearances or approvals for our products, or if clearances or approvals for future products and indications are delayed or not issued, our commercial operations would be harmed.

Our products are subject to extensive regulation by the FDA in the United States and by regulatory agencies in other countries where we do business. Government regulations specific to medical devices are wide ranging and govern, among other things:

- Product design, development and manufacture;
- · Laboratory, preclinical and clinical testing, labeling, packaging, storage and distribution;
- · Premarketing clearance or approval;
- Record keeping;
- · Product marketing, promotion and advertising, sales and distribution; and
- · Post-marketing surveillance, including reporting of deaths or serious injuries and recalls and correction and removals.

Before a new medical device, including our recently FDA approved Investigational Device Exemption, or IDE, for our feasibility study in acute ischemic stroke, NITE-1, or a new intended use for an existing product, can be marketed in the United States, a company must first submit and receive either 510(k) clearance pursuant to Section 510(k) of the Food, Drug and Cosmetic Act, or the FDCA, or approval of a premarket approval, or PMA, application from the FDA, unless an exemption applies.

In many cases, the process of obtaining PMA approval, which was required for the ENROUTE stent, is much more rigorous, costly, lengthy and uncertain than the 510(k) clearance process. In the 510(k) clearance process, the FDA must determine that a proposed device is "substantially equivalent" to a device legally on the market, known as a "predicate" device, in order to clear the proposed device for marketing. To be "substantially equivalent," the proposed device must have the same intended use as the predicate device, and either have the same technological characteristics as the predicate device or have different technological characteristics and not raise different questions of safety or effectiveness than the predicate device. Clinical data is sometimes required to support substantial equivalence. In the PMA approval process, the FDA must determine that a proposed device is safe and effective for its intended use based on extensive data, including technical, pre-clinical, clinical trial, manufacturing and labeling data. The PMA process is typically required

for devices for which the 510(k) process cannot be used and that are deemed to pose the greatest risk. Modifications to products that are approved through a PMA application generally need prior FDA approval of a PMA supplement. Similarly, some modifications made to products cleared through a 510(k) may require a new 510(k), or such modification may put the device into class III and require PMA approval. The FDA's 510(k) clearance process usually takes from three to 12 months, but may last longer. The process of obtaining a PMA generally takes from one to three years, or even longer, from the time the PMA is submitted to the FDA until an approval is obtained. Any delay or failure to obtain necessary regulatory approvals or clearances would have a material adverse effect on our business, financial condition and results of operations.

Over the last several years, the FDA has proposed reforms to its 510(k) clearance process, and such proposals could include increased requirements for clinical data and a longer review period, or could make it more difficult for manufacturers to utilize the 510(k) clearance process for their products. For example, in November 2018, FDA officials announced forthcoming steps that the FDA intends to take to modernize the premarket notification pathway under Section 510(k) of the FDCA. Among other things, the FDA announced that it planned to develop proposals to drive manufacturers utilizing the 510(k) pathway toward the use of newer predicates. These proposals included plans to potentially sunset certain older devices that were used as predicates under the 510(k) clearance pathway, and to potentially publish a list of devices that have been cleared on the basis of demonstrated substantial equivalence to predicate devices that are more than 10 years old. In September 2019, the FDA issued revised final guidance describing an optional "safety and performance based" premarket review pathway for manufacturers of "certain, well-understood device types" to demonstrate substantial equivalence under the 510(k) clearance pathway by showing that such device meets objective safety and performance criteria established by the FDA, thereby obviating the need for manufacturers to compare the safety and performance of their medical devices to specific predicate devices in the clearance process. The FDA has developed and maintains a list of device types appropriate for the "safety and performance based" pathway and will continue to develop product-specific guidance documents that identify the performance criteria for each such device type, as well as the testing methods recommended in the guidance documents, where feasible. The FDA may establish performance criteria for classes of devices for which we or our competitors seek or currently have received clearance, and it is unclear the extent to which such performance standards, if e

In addition, FDA regulations and guidance are often revised or reinterpreted by the FDA in ways that may significantly affect our business and our products. Any new statutes, regulations, or reinterpretations of existing regulations may impose additional costs or lengthen review times of any future products or make it more difficult to obtain clearance or approval for, manufacture, market, or distribute our products. The FDA's and other regulatory authorities' policies may change, and additional government regulations may be promulgated that could prevent, limit, or delay regulatory clearance or approval of our product candidates. We cannot determine what effect changes in regulations, statutes, legal interpretation, or policies, when and if promulgated, enacted, or adopted may have on our business in the future. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability.

The FDA can delay, limit or deny clearance or approval of a device for many reasons, including:

- · Our inability to demonstrate to the satisfaction of the FDA or the applicable regulatory entity or notified body that our products are safe or effective for their intended uses;
- The disagreement of the FDA or the applicable foreign regulatory body with the design, conduct or implementation of our clinical trials or the analyses or interpretation of data from pre-clinical studies or clinical trials;
- · Serious and unexpected adverse device effects experienced by participants in our clinical trials;
- The data from our pre-clinical studies and clinical trials may be insufficient to support clearance or approval, where required;
- Our inability to demonstrate that the clinical and other benefits of the device outweigh the risks;
- An advisory committee, if convened by the applicable regulatory authority, may recommend against approval of our application or may recommend that the applicable regulatory
 authority require, as a condition of approval, additional preclinical studies or clinical trials, limitations on approved labeling or distribution and use restrictions, or even if an advisory
 committee, if convened, makes a favorable recommendation, the respective regulatory authority may still not approve the product;

- The applicable regulatory authority may identify significant deficiencies in our manufacturing processes, facilities or analytical methods or those of our third-party contract manufacturers;
- The potential for approval policies or regulations of the FDA or applicable foreign regulatory bodies to change significantly in a manner rendering our clinical data or regulatory filings insufficient for clearance or approval; and
- The FDA or foreign regulatory authorities may audit our clinical trial data and conclude that the data is not sufficiently reliable to support approval or clearance.

Similarly, regulators may determine that our financial relationships with our principal investigators resulted in a perceived or actual conflict of interest that may have affected the interpretation of a study, the integrity of the data generated at the applicable clinical trial site or the utility of the clinical trial itself. Even if we are granted regulatory clearances or approvals, they may include significant limitations on the indicated uses for the product, which may limit the market for the product. Moreover, the FDA and European Union regulatory authorities strictly regulate the labeling, promotion and advertising of our products, including comparative and superiority claims vis a vis competitors' products, that may be made about products.

As a condition of approving a PMA application, the FDA may also require some form of post-approval study or post-market surveillance, whereby the applicant conducts a follow-up study or follows certain patient groups for a number of years and makes periodic reports to the FDA on the clinical status of those patients when necessary to protect the public health or to provide additional safety and effectiveness data for the device. For example, as a condition of the FDA approval for the label expansion for ENROUTE stent to include patients at standard risk for adverse events from carotid endarterectomy, in September 2022, we announced the enrollment of the first patient in ROADSTER 3, our prospective, multi-center, single-arm study to assess real-world treatment of standard surgical risk patients with carotid artery disease using TCAR. Failure to conduct the post-approval study in compliance with applicable regulations or to timely complete required post-approval studies or comply with other post-approval requirements could result in withdrawal of approval of the PMA, which would harm our business. As discussed above, findings of meaningfully higher rates of adverse events or any unexpected safety or efficacy concerns related to our approval products in such post-approval study or any other independent studies or reports can result in FDA withdrawal or restriction of our PMA approval, which can have a material adverse effect on our business prospects, reputation, and market acceptance of our products.

In addition, we are required to investigate all product complaints we receive, and timely file reports with the FDA, including MDRs that require that we report to regulatory authorities if our products may have caused or contributed to a death or serious injury or malfunctioned in a way that would likely cause or contribute to a death or serious injury if the malfunction were to recur. If these reports are not submitted in a timely manner, regulators may impose sanctions and we may be subject to product liability or regulatory enforcement actions, including warning letters, untitled letters, fines, civil penalties, recalls, seizures, operating restrictions, denial of requests for 510(k) clearance or premarket approval of new products, new intended uses or modifications to existing products, withdrawal of current 510(k) clearances or premarket approvals and narrowing of approved or cleared product labeling, all of which could harm our business. In addition, the FDA may provide notice of and conduct additional inspections, such as "for cause" inspections, of our business, sites and facilities as part of its review process. As of January 31, 2023, we had filed 717 MDR reports, including follow-up MDR reports, with the FDA for adverse events and device malfunctions including, but not limited to, stroke, arterial dissection, tip detachment, stent thrombosis and wound complications.

If we initiate a correction or removal action for our products to reduce a significant risk to health posed by our products, we would be required to submit a publicly available correction and removal report to the FDA and, in many cases, similar reports to other regulatory agencies. This report could be classified by the FDA as a device recall which could lead to an additional inspection by, or increased scrutiny from, the FDA, other international regulatory agencies and our customers regarding the quality and safety of our products. Furthermore, the submission of these reports could be used by competitors against us and cause physicians to delay or cancel prescriptions, which could harm our reputation. For example, in the first quarter of 2021, we announced the voluntary recall of certain lots of our ENROUTE Transcarotid Stent System, manufactured by Cordis. Recalls like this one could cause the supply of our TCAR products to customers to be interrupted, us to incur additional expenses, negative publicity or damage to our reputation, any of which could cause our results of operations to be adversely impacted.

The FDA and the Federal Trade Commission, or FTC, also regulate the advertising, promotion and labeling of our products to ensure that the claims we make are consistent with our regulatory clearances and approvals, that there is adequate and reasonable scientific data to substantiate the claims and that our promotional labeling and advertising is neither false nor misleading in any respect. If the FDA or FTC determines that any of our advertising or promotional claims are misleading, not substantiated or not permissible, we may be subject to enforcement actions, including adverse

publicity, warning letters, and we may be required to revise our promotional claims and make other corrections or restitutions.

The FDA and state authorities have broad investigation and enforcement powers. Our failure to comply with applicable regulatory requirements could result in enforcement action by the FDA or state agencies, which may include any of the following sanctions:

- Adverse publicity, warning letters, fines, injunctions, consent decrees and civil penalties;
- · Repair, replacement, refunds, recalls, termination of distribution, administrative detention or seizure of our products;
- · Operating restrictions, partial suspension or total shutdown of production;
- · Denial of our requests for 510(k) clearance or premarket approval of new products, new intended uses or modifications to existing products;
- · Withdrawal of 510(k) clearance or premarket approvals that have already been granted; and
- Criminal prosecution.

If any of these events were to occur, our business and financial condition could be harmed. In addition, the FDA's and other regulatory authorities' policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our products. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained and we may not achieve or sustain profitability, which would adversely affect our business, financial condition and results of operations.

Our clinical trials may fail to demonstrate competent and reliable evidence of the safety and effectiveness of our products, which would prevent or delay commercialization of our products in development.

We may be required to conduct clinical studies that demonstrate competent and reliable evidence that our products are safe and effective before we can commercialize our products. Clinical testing is expensive and can take many years to complete, and its outcome is inherently uncertain. We cannot be certain that our planned clinical trials or any other future clinical trials will be successful. In addition, even if such clinical trials are successfully completed, we cannot guarantee that the FDA or foreign regulatory authorities will interpret the results as we do, and more trials could be required before we submit our products for approval. To the extent that the results of the trials are not satisfactory to the FDA or foreign regulatory authorities for support of a marketing application, we may be required to expend significant resources, which may not be available to us, to conduct additional trials in support of potential approval of our products. Even if regulatory approval is secured for any of our products, the terms of such approval may limit the scope and use of our products, which may also limit their commercial potential. The commencement or completion of any clinical trial may be delayed or halted, or be inadequate to support approval of a PMA application, for numerous reasons, including, but not limited to, the following:

- · The FDA or other regulatory authorities do not approve a clinical trial protocol or a clinical trial, or place a clinical trial on hold;
- · Patients do not enroll in clinical trials at the rate expected;
- · Patients do not comply with trial protocols;
- Patient follow-up is not at the rate expected;
- · Patients experience adverse events;
- · Patients die during a clinical trial, even though their death may not be related to the products that are part of the trial;
- · Device malfunctions occur with unexpected frequency or potential adverse consequences;

- Side effects or device malfunctions of similar products already in the market that change the FDA's view toward approval of new or similar PMAs or result in the imposition of new requirements or testing:
- · Institutional review boards and third-party clinical investigators may delay or reject the trial protocol;
- Third-party clinical investigators decline to participate in a trial or do not perform a trial on the anticipated schedule or consistent with the clinical trial protocol, investigator
 agreement, investigational plan, good clinical practices, the IDE regulations, or other FDA or IRB requirements;
- Third-party investigators are disgualified by the FDA:
- We or third-party organizations do not perform data collection, monitoring and analysis in a timely or accurate manner or consistent with the clinical trial protocol or investigational or statistical plans, or otherwise fail to comply with the IDE regulations governing responsibilities, records, and reports of sponsors of clinical investigations;
- Third-party clinical investigators have significant financial interests related to us or our study such that the FDA deems the study results unreliable, or the company or investigators fail to disclose such interests;
- Regulatory inspections of our clinical trials or manufacturing facilities, which may, among other things, require us to undertake corrective action or suspend or terminate our clinical trials;
- · Changes in government regulations or administrative actions;
- The interim or final results of the clinical trial are inconclusive or unfavorable as to safety or effectiveness; or
- The FDA concludes that our trial design is unreliable or inadequate to demonstrate safety and effectiveness.

Material modifications to our products may require new 510(k) clearances, premarket approval, or CE Marks, or may require us to recall or cease marketing our products until new clearances or approvals are obtained.

Material modifications to the intended use or technological characteristics of our products will require new 510(k) clearances, premarket approvals or CE Marks prior to implementing the modifications, or require us to recall or cease marketing the modified devices until these clearances or approvals are obtained. Furthermore, changes to our manufacturing facility or supplier of components used in our products require prior FDA approval of a PMA supplement. The FDA requires device manufacturers to initially make and document a determination of whether or not a modification requires a new approval, supplement or clearance; however, the FDA can review a manufacturer's decision. Any modification to an FDA cleared device that would significantly affect its safety or effectiveness or that would constitute a major change in its intended use would require a new 510(k) clearance or approval of a PMA supplement. We may not be able to obtain additional 510(k) clearances or premarket approvals for new products or for modifications to, or additional indications for, our products in a timely fashion, or at all. Delays in obtaining required future clearances would harm our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth. We have made modifications to our products in the past that we believe do not require additional clearances or approvals, and we may make additional modifications in the future. If the FDA or an EU Notified Body disagrees and requires new clearances or approvals for any of these modifications, we may be required to recall and to stop selling or marketing our products as modified, which could harm our operating results and require us to redesign our products. In these circumstances, we may be subject to significant enforcement actions. In July 2022, we voluntarily requested the cancellation of our CE Mark certifications for business reasons but will continue to work with our Certified Body to maintain ISO 13485:2016 certification remains in effect. W

If we, or our suppliers, fail to comply with the FDA's QSR, our manufacturing or distribution operations could be delayed or shut down and our revenue could suffer.

Our manufacturing and design processes and those of our third-party component suppliers are required to comply with the OSR, which cover procedures and documentation of the design, testing, production, control, quality assurance, labeling, packaging, storage and shipping of our products. We are also subject to similar state requirements and licenses, and to ongoing ISO 13485 compliance in our operations. In addition, we must engage in extensive recordkeeping and reporting and must make available our facilities and records for periodic unannounced inspections by governmental agencies, including the FDA and state authorities. If we fail a regulatory inspection, our operations could be disrupted and our manufacturing interrupted. Failure to take timely and adequate corrective action in response to an adverse regulatory inspection could result in, among other things, a shutdown of our manufacturing or product distribution operations,

significant fines, suspension of marketing clearances and approvals, seizures or recalls of our device, operating restrictions and criminal prosecutions, any of which would cause our business to suffer. Furthermore, our key component suppliers may not currently be or may not continue to be in compliance with applicable regulatory requirements, which may result in manufacturing delays for our products and cause our revenue to decline.

We are registered with the FDA as a medical device specifications developer, manufacturer and complaint file establishment. The FDA has broad post-market and regulatory enforcement powers. We are subject to unannounced inspections by the FDA and the Food and Drug Branch of the California Department of Public Health, or CDPH, to determine our compliance with the QSR and other regulations at both our design and manufacturing facilities, and these inspections may include the manufacturing facilities of our suppliers. These inspections may be initiated as a result of concerns regarding the safety of our products or the components thereof.

We can provide no assurance that we will continue to remain in material compliance with the QSR. If the FDA or CDPH inspect any of our facilities and discover compliance problems, we may have to cease manufacturing and product distribution until we can take the appropriate remedial steps to correct the audit findings. Taking corrective action may be expensive, time consuming and a distraction for management and if we experience a delay at our manufacturing facility, we may be unable to produce our products, which would harm our business.

Environmental, social and corporate governance (ESG) matters, including those related to climate change and sustainability, may have an adverse effect on our business, financial condition and results of operations and damage our reputation.

There is an increasing focus from certain investors, customers, consumers, employees and other stakeholders on ESG matters including climate change, energy and water use, plastic waste and other sustainability concerns. Additionally, public interest and legislative pressure related to public companies' ESG practices, including rules related to climate change and climate-related disclosures, continue to grow. For example, in 2022, the SEC published a proposed rule that would require companies to provide significantly expanded climate-related disclosures at significant costs and operational impacts to comply and impose increased oversight obligations on our board of directors and management.

If our ESG practices fail to meet regulatory requirements or investor, customer, consumer, employee or other stakeholders' evolving expectations and standards for responsible corporate citizenship in areas including environmental stewardship, support for local communities, diversity in our employee base or on our board of directors, human capital management, employee health and safety practices, product quality, supply chain management, corporate governance and transparency, our reputation, brand and employee retention may be negatively impacted, and our customers and suppliers may be unwilling to continue to do business with us.

Changing customer and consumer preferences or increased regulatory requirements may result in increased demands or requirements regarding plastics and packaging materials, including single-use and non-recyclable plastic products and packaging, other components of our products and their environmental impact on sustainability, or increased customer and consumer concerns or perceptions (whether accurate or inaccurate) regarding the effects of substances present in certain of our products. Complying with these demands or requirements could cause us to incur additional manufacturing, operating or product development costs.

If we do not adapt to or comply with new regulations, or fail to meet evolving investor, industry or stakeholder expectations and concerns regarding ESG issues, investors may reconsider their capital investment in our company, and customers and consumers may choose to stop purchasing our products, which could have a material adverse effect on our reputation, business or financial condition.

Compliance with environmental laws and regulations could be expensive, and failure to comply with these laws and regulations could subject us to significant liability.

Our research and development and manufacturing operations involve the use of hazardous substances and are subject to a variety of federal, state, local and foreign environmental laws and regulations relating to the storage, use, discharge, disposal, remediation of, and human exposure to, hazardous substances and the sale, labeling, collection, recycling, treatment and disposal of products containing hazardous substances. Liability under environmental laws and regulations can be joint and several and without regard to fault or negligence. Compliance with environmental laws and regulations may be expensive and noncompliance could result in substantial liabilities, fines and penalties, personal injury and third-party property damage claims and substantial investigation and remediation costs. Environmental laws and regulations could become more stringent over time, imposing greater compliance costs and increasing risks and penalties associated with violations. We cannot assure you that violations of these laws and regulations will not occur in the future or have not occurred in the past as a result of human error, accidents, equipment failure or other causes. The expense associated with environmental regulation and remediation could harm our financial condition and operating results.

Risks Related to Ownership of Our Common Stock

The market price of our common stock may be volatile and fluctuate substantially, which could result in substantial losses for purchasers of our common stock.

- · The market price of our common stock can be highly volatile and may fluctuate substantially due to many factors, including:
- · Analysts' estimates, investors' perceptions, recommendations by securities analysts, the loss of analyst coverage or our failure to achieve analysts' estimates;
- · Quarterly variations in our or our competitors' results of operations;
- · Periodic fluctuations in our revenue, which could be due in part to the way in which we recognize revenue;
- The financial projections we may provide to the public, any changes in these projections or our failure to meet these projections;
- General market conditions and other factors unrelated to our operating performance or the operating performance of our competitors, including deteriorating market conditions due
 to investor concerns regarding inflation, interest rate and economic policies, supply chain issues, geopolitical tensions including the war between Russia and Ukraine and changes
 in China-Taiwan relations;
- Changes in reimbursement by current or potential payers, including CMS's decision to reconsider NCD 20.7, Percutaneous Transluminal Angioplasty, that provides coverage for CAS, to be updated to provide coverage for the full range of patients that could benefit from the TCAR procedure;
- Operating performance and stock market valuations of other technology companies generally, or those in the medical device industry in particular;
- · Actual or anticipated changes in regulatory oversight of our products;
- The results of our clinical trials as well as studies and registries conducted by others using our products;
- The results of clinical trials that study competing carotid interventions or medical management of carotid artery disease;
- · The loss of key personnel, including changes in our board of directors and management;
- · Product recalls or other problems associated with our products;
- · Legislation or regulation of our market;
- · Lawsuits threatened or filed against us, including litigation by current or former employees alleging wrongful termination, sexual harassment, whistleblower or other claims;
- · The announcement of new products or product enhancements by us or our competitors;
- · Announced or completed acquisitions of businesses or technologies by us or our competitors;
- · Announcements related to patents issued to us or our competitors and related litigation; and
- · Developments in our industry.

In recent years, the stock markets generally have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of listed companies. Broad market and industry factors may significantly affect the market price of our common stock, regardless of our actual operating performance.

In addition, in the past, stockholders have instituted securities class action litigation following periods of market volatility. If we were to become involved in securities litigation, it could subject us to substantial costs, divert resources and

the attention of management from our business and harm our business, results of operations, financial condition and reputation. These factors may materially and adversely affect the market price of our common stock.

We are obligated to maintain proper and effective internal controls over financial reporting and any failure to maintain the adequacy of these internal controls may adversely affect investor confidence in our company and, as a result, the value of our common stock.

We are required, pursuant to Section 404 of the Sarbanes-Oxley Act, or Section 404, to furnish a report by management on the effectiveness of our internal control over financial reporting. This assessment includes disclosure of any material weaknesses identified by our management in our internal control over financial reporting. We are required to comply with, among other requirements, the auditor attestation requirements of Section 404. If we have a material weakness, we would receive an adverse opinion regarding our internal control over financial reporting from our independent registered accounting firm.

Our compliance with Section 404 requires that we incur substantial accounting expense and expend significant management efforts. We have engaged outside consultants who function in the capacity of an internal audit group, and we will continue to hire additional consultants, accounting and financial staff with appropriate public company experience and technical accounting knowledge as we maintain the system and process documentation necessary to perform the evaluation needed to comply with Section 404.

We cannot assure you that there will not be material weaknesses in our internal control over financial reporting in the future. Any failure to maintain internal control over financial reporting could severely inhibit our ability to accurately report our financial condition or results of operations. If we are unable to conclude that our internal control over financial reporting is effective, or if our independent registered public accounting firm determines we have a material weakness in our internal control over financial reporting, we could lose investor confidence in the accuracy and completeness of our financial reports, the market price of our ordinary shares could decline, and we could be subject to sanctions or investigations by Nasdaq, the SEC or other regulatory authorities. Failure to remedy our current and any future material weakness in our internal control over financial reporting, or to implement or maintain other effective control systems required of public companies, could also restrict our future access to the capital markets.

Anti-takeover provisions in our amended and restated certificate of incorporation and bylaws, and Delaware law, could discourage a change in control of our company or a change in our management.

Our amended and restated certificate of incorporation and bylaws contain provisions that might enable our management to resist a takeover. These provisions include:

- Advance notice requirements applicable to stockholders for matters to be brought before a meeting of stockholders and requirements as to the form and content of a stockholders' notice;
- A supermajority stockholder vote requirement for amending certain provisions of our amended and restated certificate of incorporation and bylaws;
- · The right to issue preferred stock without stockholder approval, which could be used to dilute the stock ownership of a potential hostile acquirer;
- · Allowing stockholders to remove directors only for cause;
- A requirement that the authorized number of directors may be changed only by resolution of the board of directors;
- Allowing all vacancies, including newly created directorships, to be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum, except as
 otherwise required by law;
- A requirement that our stockholders may only take action at annual or special meetings of our stockholders and not by written consent;
- · Limiting the forum to Delaware for certain litigation against us; and
- Limiting the persons that can call special meetings of our stockholders to our board of directors, the chairperson of our board of directors, the chief executive officer or the president, in the absence of a chief executive officer.

These provisions might discourage, delay or prevent a change in control of our company or a change in our management. The existence of these provisions could adversely affect the voting power of holders of common stock and limit the price that investors might be willing to pay in the future for shares of our common stock. In addition, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which generally prohibits a Delaware corporation from engaging in any of a broad range of business combinations with any "interested" stockholder for a period of three years following the date on which the stockholder became an "interested" stockholder. See "Description of Capital Stock."

Our amended and restated certificate of incorporation and bylaws provide that the Court of Chancery of the State of Delaware will be the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' abilities to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our amended and restated certificate of incorporation and bylaws provide that, unless we consent in writing to the selection of an alternative forum, the sole and exclusive forum, to the fullest extent permitted by law, for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers or other employees to us or our stockholders, (3) any action asserting a claim against us or any director or officer of ours arising pursuant to any provision of the Delaware General Corporation Law, (4) any action to interpret, apply, enforce or determine the validity of our amended and restated certificate of incorporation or bylaws, or (5) any other action asserting a claim that is governed by the internal affairs doctrine shall be the Court of Chancery of the State of Delaware or federal court located within the State of Delaware if the Court of Chancery does not have jurisdiction, in all cases subject to the court's having jurisdiction over indispensable parties named as defendants. A complaint asserting a cause of action under the Securities Act may be brought in state or federal court. With respect to the Securities Exchange Act of 1934, or Exchange Act, only claims brought derivatively under the Exchange Act would be subject to the forum selection clause described above. The enforceability of similar choice of forum provisions in other companies' certificates of incorporation and bylaws has been challenged in legal proceedings, and it is possible that, in connection with any action, a court could find the choice of forum provisions contained in our amended and restated certificate of incorporation and bylaws to be inapplicable or unenforceable in such action. Although we believe these provisions benefit us by providing increased consistency in the application of Delaware law for the specified types of actions and proceedings, the provisions may have the effect of discouraging lawsuits against us or our directors and offic

We have not paid dividends in the past and do not expect to pay dividends in the future, and, as a result, any return on investment may be limited to the value of our stock.

We have never paid cash dividends and do not anticipate paying cash dividends in the foreseeable future. The payment of dividends will depend on our earnings, capital requirements, financial condition, prospects for future earnings and other factors our board of directors may deem relevant. In addition, our loan agreement limits our ability to, among other things, pay dividends or make other distributions or payments on account of our common stock, in each case subject to certain exceptions. If we do not pay dividends, our stock may be less valuable because a return on your investment will only occur if our stock price appreciates and you then sell our common stock.

Item 1B. Unresolved Staff Comments

None

Item 2. Properties

We currently lease approximately 31,000 square feet for our corporate headquarters and manufacturing facility located in Sunnyvale, California under a lease agreement which terminates in October 2024. We have an additional option to extend the lease term for a period of five years. The option must be exercised no more than 12 months and no less than nine months prior to the expiration of the applicable term.

We also lease approximately 82,000 square feet of office and manufacturing space located in Plymouth, Minnesota under a lease agreement which terminates in November 2029. We have the option to extend the lease term for two

additional five-year periods. The option must be exercised no more than 12 months and no less than nine months prior to the expiration of the applicable term. We believe our two facilities meet our current and future anticipated needs.

Item 3. Legal Proceedings

We are not currently a party to any material legal proceedings. From time to time we may become involved in legal proceedings or investigations, which could have an adverse impact on our reputation, business and financial condition and divert the attention of our management from the operation of our business.

Item 4. Mine Safety Disclosures

Not applicable

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Market Information

Our common stock is listed on The Nasdaq Global Select Market under the symbol "SILK," and began trading on April 4, 2019. Prior to that date, there was no public trading market for our common stock.

Holders of Record

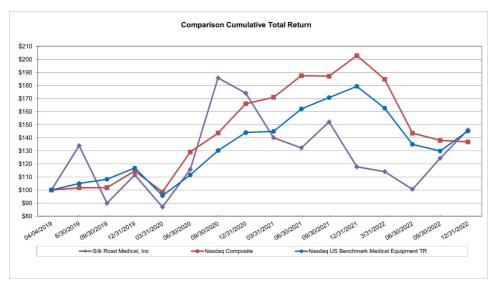
As of January 31, 2023, there were approximately 56 stockholders of record of our common stock. Since many of our shares of common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of stockholders represented by these record holders.

Dividondo

We have never declared or paid, and do not anticipate declaring or paying, any cash dividends on any of our capital stock. We do not anticipate paying any dividends in the foreseeable future, and we currently intend to retain all available funds and any future earnings for use in the operation of our business, to finance the growth and development of our business and for future repayment of debt. Future determinations as to the declaration and payment of dividends, if any, will be at the discretion of our board of directors and will depend on then-existing conditions, including our operating results, financial condition, contractual restrictions, capital requirements, business prospects and other factors our board of directors may deem relevant. In addition, our term loan agreement limits our ability to pay dividends or make other distributions or payments on account of our common stock, in each case subject to certain exceptions.

Stock Performance Graph

The following graph illustrates a comparison of the total cumulative stockholder return on our stock with the total return for (i) the Nasdaq Composite Index (U.S.) and (ii) the Nasdaq U.S. Benchmark Medical Equipment TR Index for the period from April 4, 2019 (the first day of trading of our common stock), through December 31, 2022. The graph assumes an investment of \$100 in our common stock at market close on April 4, 2019 and the reinvestment of dividends, if any. The comparisons in the table are not intended to forecast or be indicative of possible future performance of our common stock. This graph shall not be deemed "soliciting material" or be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities under that Section, and shall not be deemed to be incorporated by reference into any of our filings under the Securities Act of 1933, as amended (the "Securities Act"), whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.



\$100 investment in stock or index	Apr. 4, 2019		J	Jun. 30, 2019		Sep. 30, 2019		Dec. 31, 2019		Mar. 31, 2020		Jun. 30, 2020		Sep. 30, 2020		Dec. 31, 2020		Mar. 31, 2021		Jun. 30, 2021		Sep. 30, 2021		Dec. 31, 2021		Mar. 31, 2022		Jun. 30, 2022		Sep. 30, 2022		Dec. 31, 2022	
Silk Road Medical, Inc. (SILK)	\$	100	\$	134	\$	90	\$	112	\$	87	\$	116	\$	186	\$	174	\$	140	\$	132	\$	152	\$	118	\$	114	\$	101	\$	124	\$	146	
Nasdaq Composite	\$	100	\$	102	\$	102	\$	115	\$	99	\$	129	\$	144	\$	166	\$	171	\$	188	\$	187	\$	203	\$	185	\$	144	\$	138	\$	137	
Nasdaq US Benchmark Medical Equipment TR	\$	100	\$	105	\$	108	\$	117	\$	96	\$	112	\$	130	\$	144	\$	145	\$	162	\$	171	\$	179	\$	163	\$	135	\$	130	\$	145	

Recent Sales of Unregistered Securities

None.

Item 6. [Reserved]

Item 7. Management's Discussion And Analysis Of Financial Condition And Results Of Operations

You should read the following discussion and analysis of our financial condition and results of operations together with our audited financial statements and related notes thereto included elsewhere in this Annual Report on Form 10-K. This discussion and other parts of this Annual Report on Form 10-K contain forward-looking statements that involve risks and uncertainties, such as statements of our plans, objectives, expectations and intentions, that are based on the beliefs of our management, as well as assumptions made by, and information currently available to, our management. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in the section of this Annual Report on Form 10-K entitled "Risk Factors" and the "Cautionary Note Regarding Forward-Looking Statements" beginning on page 1.

Overview

We are a medical device company focused on reducing the risk of stroke and its devastating impact. We believe a key to stroke prevention is minimally-invasive and technologically advanced intervention to safely and effectively treat carotid artery disease, one of the leading causes of stroke. We have pioneered a relatively new approach for the treatment of carotid artery disease called transcarotid artery revascularization, or TCAR, which we seek to establish as the standard of care. We manufacture and sell in the United States our portfolio of TCAR products, which are designed to provide direct access to the carotid artery, effective reduction in stroke risk throughout the procedure, and long-term restraint of carotid plaque.

We began commercializing our products in the United States in late 2015. Our products are currently the only devices cleared and approved by the FDA specifically for transcarotid use. In the second quarter of 2022, we announced FDA label and Medicare coverage expansions for the use of TCAR in standard surgical risk patients. TCAR is reimbursed based on established CPT codes and ICD-10 codes related to carotid stenting that track to MS-DRG classifications.

While we do not currently sell our products in markets outside the United States, we are pursuing regulatory clearances in Japan and China, and in the fourth quarter of 2022, we received Shonin approval for the ENROUTE NPS and the ENROUTE stent, and are pursuing next steps including assessing the reimbursement process and our pathway and timeline to launch in Japan.

We designed our U.S. commercial strategy and built our direct sales force with a particular focus on vascular surgery practices. Vascular surgeons are skilled in endovascular procedures, and our sales and marketing efforts are focused on driving adoption and supporting their practice development by offering them an innovative, safe, effective and minimally-invasive alternative for treating carotid artery disease. We also market to other specialists with experience in CEA or CAS with the appropriate skill set for TCAR, including neurosurgeons, cardiothoracic surgeons and non-surgical interventionalists in radiology, neuroradiology and cardiology. We also work on developing strong relationships with physicians and hospitals that we identified as key opinion leaders. We consider the hospitals and medical centers where the procedure is performed to be our customers, as they typically are responsible for purchasing our products.

We manufacture and distribute the ENROUTE NPS at our facilities in Sunnyvale, California, and Plymouth, Minnesota using components and sub-assemblies manufactured both inhouse and by third party manufacturers and suppliers. We purchase our other products from third-party contract manufacturers, including our ENROUTE stent. We recently expanded our product portfolio with the limited market release of our ENROUTE Enflate Transcarotid RX Balloon Dilation Catheter in the fourth quarter of 2022, with a full market release planned in 2023. Our Enflate product received 510(k) clearance from the FDA in September 2022 and is manufactured under an agreement with Nordson Medical Ireland, Ltd. Many of our third-party and began and outside vendors are currently single-source suppliers. In June 2022, we exercised our right of first refusal to aquire additional space at our Plymouth, Minnesota facility and began commercial ENROUTE NPS production at that facility during the third quarter of 2022. We believe our combined facilities will be sufficient to meet our manufacturing needs for at least the next five years.

In October 2022, we completed an underwritten public offering of approximately 2.7 million shares of our common stock at a public offering price of \$43.00 per share, resulting in net proceeds of approximately \$109.0 million. As of December 31, 2022, we had cash and cash equivalents and short-term investments of \$213.7 million, long-term debt of \$74.6 million and an accumulated deficit of \$343.7 million. We believe that our cash and cash equivalents and available-for-sale investments as of December 31, 2022, together with our expected revenue, will be sufficient to meet our capital requirements and fund our operations for at least the next 12 months.

COVID-19 Pandemic

The global COVID-19 pandemic presents significant risks to us and has had, and continues to have intermittent impacts on our business, operations, and financial results and condition, directly and indirectly, including, without limitation, impacts on: the health of our management and employees; our manufacturing, distribution, marketing and sales operations; our research and development activities, including clinical activities; and customer and patient behaviors. COVID-19 and its variants have negatively impacted, and may continue to negatively impact our operations and revenue and overall financial condition by significantly decreasing the expected number of TCAR procedures performed. The pandemic has also reduced our expectations for the growth rate in the number of TCAR procedures to be performed in the future. The expected number of TCAR procedures performed, similar to other surgical procedures, has significantly decreased during various phases of the pandemic as many health care organizations globally prioritized the treatment of patients with COVID-19 while managing through capacity and labor issues. Hospitals have and continue to experience staffing shortages and other operational challenges that cause problems scheduling or rescheduling TCAR procedures. These measures and challenges will likely continue during 2023, which would adversely affect our revenue. Due to presumed fear and anxiety, some patients are not accessing routine or emergency health care which may adversely impact the number of TCAR procedures and our revenue.

Other disruptions or potential disruptions include intermittent restrictions on our personnel to travel and access customers for selling, marketing, training, case support and product development feedback; delays in approvals by regulatory bodies; delays in enrollment of clinical trials; delays in product development efforts; delays in preparation for and launch of our international expansion efforts; and additional government requirements or other incremental mitigation efforts that may further impact our capacity to manufacture, sell and support the use of our products. We have also experienced periodic supply shortages and shipment delays, lockdowns that have affected the availability of certain components and an increase in the cost of certain materials.

New virus variants and varying infection rates have continued to make the current COVID-related environment highly volatile and uncertain. The ultimate extent of the impact of COVID-19 remains highly uncertain and will depend on future developments and factors that continue to evolve, including the duration and severity of new virus variants, the actions taken to reduce the transmission of COVID-19 or mitigate the burden on hospitals, and the speed with which normal economic, labor market and operating conditions resume, among others. Most of these developments and factors are outside of our control and could exist for an extended period of time.

Components of our Results of Operations

This section of this Annual Report on Form 10-K generally discusses 2022 and 2021 items and year-to-year comparisons between 2022 and 2021. Discussions of 2020 items and year-to-year comparisons between 2021 and 2020 that are not included in this Form 10-K can be found in "Management's Discussion and Analysis of Financial Condition and Results of Operations" in Part II, Item 7 of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2021.

Revenue

We currently derive all of our revenue from the sale of our portfolio of TCAR products to hospitals and medical centers in the United States. Each of our products is purchased individually, and the majority of our revenue is derived from sales of the ENROUTE NPS and the ENROUTE stent. No single customer accounted for 10% or more of our revenue during the during the years ended December 31, 2022 and 2021. Key performance indicators that drive revenue include the number of active sales territories, the number of trained physicians certified to perform TCAR, the number of hospital accounts that perform our procedures, the number of procedures per physician or hospital account, and average selling prices for our products. We expect our revenue to continue to increase in the future through increased adoption of TCAR and as a result of the introduction of new products and international expansion. Any decreases in our key performance indicators could have a negative impact on our future revenue. In addition, we have expanded our sales and marketing infrastructure to help us drive and support revenue growth and we intend to continue this expansion. However, we may continue to experience headwinds due to price pressures, increased labor costs, labor and staffing shortages, hospital capacity and patient behavior caused by the COVID-19 pandemic or as a result of general macroeconomic fa

We expect our revenue to fluctuate from quarter-to-quarter due to a variety of factors, including seasonality. For example, in the first quarter, our results can be harmed by adverse weather and by resetting of annual patient healthcare insurance plan deductibles, both of which may cause patients to delay elective procedures. Holiday and summer vacations by healthcare providers and/or patients can also affect procedure volumes that in turn affect hospital ordering

patterns. We have also seen procedure volumes moderate during major medical conferences when significant portions of our customer base are attending the conferences.

Cost of Goods Sold and Gross Margin

We currently manufacture the ENROUTE NPS at our facilities in California and Minnesota. We purchase our other products from third-party manufacturers. Cost of goods sold consists primarily of costs related to materials, components and sub-assemblies, direct labor, manufacturing overhead, reserves for excess, obsolete and non-sellable inventories as well as distribution-related expenses. Overhead costs include the cost of quality control, material procurement, inventory control, facilities, equipment and operations supervision and management. Cost of goods sold also includes depreciation expense for production equipment and certain direct costs such as those incurred for shipping our products and royalties related to the sale of our ENROUTE stent. We expense all inventory provisions as cost of goods sold. We record adjustments to our inventory valuation for estimated excess, obsolete and non-sellable inventories based on assumptions about future demand, past usage, changes to manufacturing processes and overall market conditions. We expect cost of goods sold to increase in absolute dollars to the extent more of our products are sold.

We calculate gross margin as gross profit divided by revenue. Our gross margin has been and will continue to be affected by a variety of factors, including primarily average selling prices, product sales mix, production and ordering volumes, manufacturing costs, product yields, replacement of expired product, headcount and cost-reduction strategies. We expect our gross margin to increase over the long-term as our production and ordering volumes increase and as we spread the fixed portion of our overhead costs over a larger number of units produced, potentially offset by inflationary pressures and investments in additional operational infrastructure in both California and our facility in Minnesota. Specifically, we are experiencing inflationary and price pressures and increased labor costs and labor and staffing shortages, affecting the cost of the components for our TCAR products and the wages that we pay our employees, as well as the wages our vendors pay their employees, due to challenging labor market conditions. We began commercial production at our Plymouth, Minnesota facility during the third quarter of 2022; with two manufacturing facilities, we expect our gross margin to be slightly lower than prior periods in the short term. We intend to use our design, engineering and manufacturing know-how and capabilities to further advance and improve the efficiency of our manufacturing processes, which we believe will reduce costs and have a positive long-term impact on our gross margin. However, our gross margin could fluctuate from quarter to quarter as we introduce new products, execute certain manufacturing engineering projects, adopt new manufacturing processes and technologies, and expand our distribution operations and infrastructure to support our planned long term growth and risk mitigation. In addition, COVID-19 and its variants may continue to negatively impact our gross margin in the near term due to unfavorable production variances as a result of lower production and lower demand.

Research and Development Expenses

Research and development, or R&D, expenses consist primarily of engineering, product development, clinical studies to develop and support our products, regulatory expenses, medical affairs, and other costs associated with products and technologies that are in development. These expenses include employee compensation, including stock-based compensation, supplies, consulting, prototyping, testing, materials, travel expenses, depreciation and an allocation of facility overhead expenses, in each case related to R&D programs. Additionally, R&D expenses include costs associated with our clinical studies, including clinical trial design, clinical trial site initiation and study costs, data management, related travel expenses and the cost of products used for clinical trials, internal and external costs associated with our regulatory compliance and quality assurance functions and overhead costs. We expect R&D expenses as a percentage of revenue to vary over time depending on the level and timing of our new product development efforts, as well as our clinical development, clinical and other related activities. In addition, COVID-19 may continue to impact our product development efforts and clinical and regulatory matters for the foreseeable future. COVID-19 has and continues to impact enrollment in clinical trials across the medical device industry and may affect any new trials we decide to pursue.

Selling, General and Administrative Expenses

Selling, general and administrative, or SG&A, expenses consist primarily of compensation for personnel, including stock-based compensation, related to selling and marketing functions, physician education programs, commercial operations and analytics, reimbursement, finance, information technology and human resource functions. Other SG&A expenses include sales commissions, training, travel expenses, promotional activities, marketing initiatives, market research and analysis, conferences and trade shows, professional services fees (including legal, audit and tax fees), insurance costs, general corporate expenses and allocated facilities-related expenses. We expect SG&A expenses to continue to increase in absolute dollars as we expand our infrastructure to both drive and support anticipated growth in revenue, due to additional legal, accounting, insurance and other expenses associated with being a public company, and

as we expand our presence. In addition, we plan to continue exploring sales and marketing expansion opportunities in international geographies

New virus variants and varying infection rates of COVID-19 may modulate our SG&A expenses over the short term. The outbreak and persistence of COVID-19 in international markets that we have targeted for our international expansion may also delay preparation for and launch of such expansion efforts.

Interest Income (Expense), net

Interest income (expense), net consists primarily of cash interest expense incurred on our outstanding indebtedness and non-cash interest expense related to the accretion of closing fees and amortization of debt discount and issuance costs associated with our debt agreements. Our interest expense was partially offset by interest income earned on our cash, cash equivalents and investments.

(in thousands, except share and per share data)		Year Ended December 31,					
	2022		2021		2020		
Revenue	\$ 138,638	3 \$	101,475	\$	75,227		
Cost of goods sold	37,870	ŝ	25,446		21,291		
Gross profit	100,762	2	76,029		53,936		
Operating expenses:							
Research and development	36,449		27,110		21,271		
Selling, general and administrative	116,31	7	96,387		75,524		
Total operating expenses	152,760	<u> </u>	123,497		96,795		
Loss from operations	(52,004	4)	(47,468)		(42,859)		
Interest income (expense), net	(2,57)		(2,320)		(3,307)		
Loss on debt extinguishment	(24)		_		(1,119)		
Other income (expense), net	(19		(23)		(80)		
Net loss	\$ (55,01)	0) \$	(49,811)	\$	(47,365)		

Comparison of Years Ended December 31, 2022 and 2021

Revenue. Revenue increased \$37.1 million, or 37%, to \$138.6 million during the year ended December 31, 2022, compared to \$101.5 million during the year ended December 31, 2021. The increase in revenue was attributable to an increase in the number of products sold as physicians performed more TCAR procedures and as we expanded our sales territories, increased the number of new accounts, and trained more physicians in TCAR. In addition, we believe that revenue for the year ended December 31, 2022, benefitted from both the continued recovery from the COVID-19 pandemic, allowing for a more relatively normal healthcare operating environment in the second half of 2022, and from the FDA label and Medicare coverage expansions for the use of TCAR in standard surgical risk patients that we received in the second quarter of 2022.

Cost of Goods Sold and Gross Marain. Cost of goods sold increased \$12.4 million, or 49%, to \$37.9 million during the year ended December 31, 2022, compared to \$25.4 million during the year ended December 31. 2021. This increase was attributable to the increase in the number of products sold and also to additional overhead related to the start-up and expansion of our manufacturing capacity at our facility in Minnesota. Gross margin for the year ended December 31, 2022, decreased to 73%, compared to 75% for the year ended December 31, 2021. The decrease in gross margin during 2022 was driven by unfavorable production variances as a result of our COVID-19 related production issues in the first quarter of 2022 and also by additional overhead related to the start-up and expansion of our manufacturing capacity at our facility in Minnesota.

Research and Development Expenses. R&D expenses increased \$9.3 million. or 34%. to \$36.4 million during the year ended December 31. 2022. compared to \$27.1 million during the year ended December 31. 2021. The increase in R&D expenses was driven by growth in personnel and investment in new and ongoing R&D programs. The increase in R&D expenses was primarily attributable to an increase of \$7.4 million in personnel-related expenses. including stock-based compensation. as a result of increased headcount, an increase of \$1.5 million related to the allocation of facilities, depreciation and other related expenses. particularly related to our new facility. an increase of \$0.4 million in travel related costs and an increase of \$0.3 million in outside services, partially offset by decreases in clinical and regulatory expense and in educational grants.

Sellina. General and Administrative Expenses. SG&A expenses increased \$19.9 million, or 21%, to \$116.3 million during the year ended December 31, 2022, compared to \$96.4 million during the year ended December 31, 2021. The increase in SG&A costs was due to the continued expansion of our sales team and commercial efforts, compared to the 72

prior vear period. The increase in SG&A expenses is primarily attributable to an increase of \$17.7 million in payroll and personnel-related expenses and an increase of \$2.9 million in physician training and travel-related costs. Other increases, which included \$0.6 million in software-related expense, and an increase of \$0.3 million in marketing and tradeshow expenses, were partially offset by decreases of \$1.0 million in the allocated costs of facilities and other related expenses and decreases in consulting and professional fees. Personnel-related expenses included stock-based compensation expense of \$18.6 million and \$11.1 million for the years ended December 31, 2022 and 2021, respectively.

Interest Income (Expense), Net. Interest income (expense), net increased \$0.3 million, or 11%, to an expense of \$2.6 million during the year ended December 31, 2022, compared to an expense of \$2.3 million during the year ended December 31. 2021. The increase in net interest expense was attributable to both the increased interest rate and the amount of borrowings outstanding as a result of our May 2022 refinancing as compared with the prior year. Our increased interest expense was partially offset by an increase in interest income due to higher interest rates and higher cash, cash equivalents and investments balances during the year ended December 31, 2022, as compared to the prior year period.

Other Income (Expense), Net. Other income (expense), net increased to an expense of \$0.2 million during the year ended December 31,2022. The increase in net other expenses was attributable to losses on the disposal of property and equipment during the year

Liquidity and Capital Resources

Sources of Liquidity

To date, our principal sources of liquidity have been net proceeds from sales of our common stock in public offerings, private sales of our equity securities and debt financings, as well as revenue from product sales, which we expect to be our primary source of future liquidity, and to a lesser extent, proceeds from stock option exercises and employee stock purchase plan purchases. As of December 31, 2022, we had cash and cash equivalents and short-term investments of \$213.7 million, \$75.0 million outstanding principal in term loans, an additional \$125.0 million in available but unused term loans and \$25.0 million in availability under a revolving credit facility available under a loan agreement, as described in more detail below

In October 2022, we completed an underwritten public offering of approximately 2.7 million shares of our common stock at a public offering price of \$43.00 per share, resulting in net proceeds of approximately \$109.0 million.

We expect to continue to devote a substantial amount of our capital resources to expand commercialization efforts and increase adoption of TCAR using our products, conduct clinical studies and expand our clinical evidence base, and develop additional products. We will also continue exploring sales and marketing expansion opportunities in international geographies. In addition, as a public company, we incur significant legal, accounting, director and officer liability insurance, exchange listing and SEC compliance, investor relations and other expenses, all of which continue to increase. Because of these and other factors, we expect to continue to incur substantial net losses and negative cash flows from operations for the foreseeable

While we believe our existing cash and cash equivalents and short-term investments, together with our expected revenue, will be sufficient to meet our capital requirements and fund our operations for at least the next 12 months, we have based this estimate on assumptions that may prove to be incorrect, and we could spend our available financial resources much faster than we currently expect. Our future funding requirements will depend on many factors, including:

- The degree and rate of market acceptance of TCAR and our products;
- Whether we acquire third-party companies, products or technologies;
- Restructuring, refinancing or repayment of debt;
- The scope and timing of investment in our sales force, marketing initiatives and physician training programs;
- The scope, rate of progress and cost of our research and development activities, current or future clinical studies and additional regulatory clearances or approvals; The scope and timing of investment in acute ischemic stroke and other neurovascular and cardiac products we may develop;
- The costs associated with any future product recall that may occur;

- The costs of attaining, defending and enforcing our intellectual property rights;
- The impact of health epidemics and other outbreaks, such as the COVID-19 pandemic and the spread of new variants, on our business and operations; The emergence of competing technologies or other adverse market developments; and
- The rate at which we expand internationally.

We may seek to raise additional capital through equity offerings or debt financings and such additional financing may not be available to us on acceptable terms, or at all, and involves risks as described in "Part I. Item 1.A. Risk Factors."

Term Loan Agreement

On May 27, 2022, we entered into a Loan and Security Agreement, or Loan Agreement, with Oxford Finance LLC and its agent, or Oxford Finance, which provides for a \$225.0 million loan facility, comprised of a \$25.0 million secured revolving credit facility and a \$200.0 million secured term loan facility. We concurrently drew down \$75.0 million under the term loan facility and used a portion of the proceeds to pay off outstanding amounts under and terminate our prior loan agreement with Stifel Bank. The term loans are available in three tranches. Upon our request, the revolving credit facility will be increased from \$25.0 million to \$50.0 million. The revolving loans are available subject to a borrowing base equal to 85% of eligible receivables plus 50% of eligible inventory, up to the lesser of 40% of the borrowing base or \$10.0 million in the case of eligible inventory.

The revolving loans and the term loans mature on May 1, 2027. The principal amount of outstanding revolving loans, together with accrued and unpaid interest, is due on the maturity date. The principal amount of outstanding term loans are required to be repaid in equal monthly installments beginning on July 1, 2026. As we achieved a specified consolidated trailing twelve-month revenue target, we may exercise our option to extend the first amortization date for the term loans to July 1, 2027. Such election may be made no earlier than June 30, 2023 and no later than thirty (30) days prior to July 1, 2026. If we exercise this option, then the maturity date for both the revolving loans and the term loans will be May 1, 2028.

The revolving loans accrue interest at the greater of 1-month Secured Overnight Financing Rate, or SOFR, or the Index Rate, and 0.85%, plus a margin of 3.00%. The term loans accrue interest at the greater of the Index Rate and 0.85%, plus a margin of 5.00%. The Index Rate is capped at 2.50% for purposes of the Loan Agreement. Interest on both revolving loans and term loans is payable monthly in arrears. The term loan may not be reborrowed once repaid, but we may prepay the term loan at any time in full, or in part in increments of \$10.0 million. We are required to pay a prepayment fee of 3.0% for prepayments of term loans made in the first year after closing, 2.0% for prepayments of term loans made in the second year after closing, 1.0% for prepayments of term loans made in the third year after closing and no prepayment fees thereafter. Upon the earlier of prepayment or maturity of the term loans, we are required to pay a fee of 5.0% of the aggregate original principal amount of the funded term loans, which fee increases to 6.75% if we exercise our option to extend the amortization date and maturity date. We are also obligated to pay other customary fees for a loan facility of this size and type.

Our obligations under the Loan Agreement are secured by substantially all of our assets. The Loan Agreement requires that we maintain consolidated trailing twelve-month revenues of at least 75% of the outstanding principal amount of the term loans, measured as of the last day of each fiscal quarter; or if the revenue target is not achieved, we must have maintained unrestricted cash and cash equivalents (net of outstanding revolving loans) subject to control agreements in favor of Oxford Finance equal to at least 50% of the outstanding principal amount of the term loans. Additionally, the Loan Agreement contains customary affirmative and negative covenants, including covenants limiting our ability and the ability of our subsidiaries to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on capital stock, make investments and acquisitions, and enter into transactions with affiliates, in each case subject to customary exceptions for a loan facility of this size and type.

The events of default under the Loan Agreement include, among others, payment defaults, material misrepresentations, breaches of covenants, cross defaults with certain other material indebtedness, bankruptcy and insolvency events, and judgment defaults. The occurrence of an event of default could result in the acceleration of our obligations under the Loan Agreement, the termination of the lender's commitments, a 5% increase in the applicable rate of interest and the exercise by the lender of other rights and remedies provided for under the Loan Agreement.

As of December 31, 2022, the aggregate outstanding principal balance under the Loan Agreement was \$75.0 million and the variable interest rate was 7.5%. As of December 31, 2022, we were in compliance with all covenants under the term loan agreement.

Material Cash Requirements

Our material cash requirements include our outstanding indebtedness under the Loan Agreement, operating leases and non-cancellable purchase commitments. As of December 31, 2022, we had principal, interest and fees commitments of \$104.9 million under the Loan Agreement, of which \$5.8 million in interest and fees is expected to be paid within the next 12 months. Our operating lease commitments consist of our lease obligations for our facilities in Sunnyvale, California and Plymouth, Minnesota. Our total operating lease commitments as of December 31, 2022 are approximately \$9.6 million, of which \$2.0 million is expected to be paid within the next 12 months. We have non-cancellable purchase commitments primarily related to our ENROUTE stent and other inventory components of approximately \$1.9 million within the next 12 months.

Cordis License Agreement

We have paid Cordis a one-time license execution fee and are obligated to pay royalties to Cordis on a calendar quarter basis during the term of the Cordis License Agreement, calculated based on net sales of the licensed products we sell during the preceding quarterly period. The license granted under Cordis License Agreement shall remain in full force and effect on a country-by-country basis until the last to expire of the Licensed IP in such country.

Cordis Supply Agreement

We are obligated under the Cordis Supply Agreement to purchase a minimum volume of the ENROUTE stent annually. This obligation is binding until the natural expiration of the Cordis License Agreement, due to expiration of the last-to-expire of the Licensed IP, if the Cordis License Agreement remains in effect through such natural expiration.

Cash Flows

The following table summarizes our cash flows for each of the periods presented below:

	Year Ended December 31,								
(in thousands)		2022		2021		2020			
Net cash (used in) provided by:	' <u></u>								
Operating activities	\$	(32,581)	\$	(38,935)	\$	(42,068)			
Investing activities		(162,068)		72,644		(9,393)			
Financing activities		139,699		6,978		81,746			
Net increase (decrease) in cash, cash equivalents and restricted cash	\$	(54,950)	\$	40,687	\$	30,285			

Net Cash Used in Operating Activities

Net cash used in operating activities for the year ended December 31, 2022 was \$32.6 million, consisting primarily of a net loss of \$55.0 million and an increase in net operating assets of \$6.0 million, partially offset by non-cash charges of \$28.4 million. The increase in net operating assets was primarily due to increases in accounts receivable due to an increase in sales and in inventories to support the growth of our operations and a decrease in other liabilities due to the timing of payments. These changes were partially offset by increases in accounts payable and accrued liabilities, due to the timing of payments and the growth of our operations and accrued payroll and related expenses. The non-cash charges primarily consisted of stock-based compensation, as well as depreciation and amortization, amortization of right-of-use assets, non-cash interest expense, accretion of discounts on investments, loss on debt extinguishment and a loss on the disposal of property and equipment. We recognized a loss on debt extinguishment of \$0.2 million in connection with the early termination of our prior term loan agreement with Stifel Bank.

Net cash used in operating activities for the year ended December 31, 2021 was \$38.9 million, consisting primarily of a net loss of \$49.8 million and an increase in net operating assets of \$6.5 million, partially offset by non-cash charges of \$17.4 million. The increase in net operating assets was primarily due to increases in accounts receivable due to an increase in sales and in inventories to support the growth of our operations, decreases in accounts payable and other liabilities, due to timing of payments. These changes were partially offset by increases in accrued liabilities due to timing of payments and the growth of our operations and accrued payroll and related expenses. The non-cash charges primarily consisted of stock-based compensation, as well as depreciation and amortization, amortization of premiums on investments and of right-of-use assets, non-cash interest expense and provision for excess and obsolete inventories.

Net Cash Provided by (Used in) Investing Activities

Net cash used in investing activities in the year ended December 31, 2022 was \$162.1 million, which consisted of purchases of investments of \$168.2 million and purchases of property and equipment of \$5.0 million, offset by proceeds from maturities of investments of \$11.1 million.

Net cash provided by investing activities in the year ended December 31, 2021 was \$72.6 million, which consisted of maturities of investments of \$77.4 million, offset by purchases of property and equipment of \$4.8 million.

Net Cash Provided by Financing Activities

Net cash provided by financing activities in the year ended December 31, 2022 was \$139.7 million, which reflects net proceeds of \$109.0 million from our October 2022 public offering and net proceeds of \$73.9 million from the issuance of debt, partially offset by repayment of debt of \$49.0 million and proceeds from stock option exercises and purchases under our employee stock purchase plan of \$5.8 million.

Net cash provided by financing activities in the year ended December 31, 2021 was \$7.0 million, consisting primarily of proceeds from stock option exercises and purchases under our employee stock purchase plan.

Critical Accounting Policies and Estimates

Management's discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles. The preparation of these financial statements requires us to make estimates and assumptions for the reported amounts of assets, liabilities, revenue, expenses and related disclosures. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions and any such differences may be material.

While our significant accounting policies are more fully described in Note 2 of our audited financial statements included in this Annual Report on Form 10-K, we believe the following discussion addresses our most critical accounting policy, which is most important to our financial condition and results of operations and require our most difficult, subjective and complex judgments.

Revenue Recognition

Our revenue is generated from the sale of our products to hospitals and medical centers in the United States through direct sales representatives. Revenue is recognized when obligations under the terms of a contract with customers are satisfied, which occurs with the transfer of control of our products to customers, either upon shipment of the product or delivery of the product to the customer under our standard terms and conditions. Revenue is measured as the amount of consideration we expect to receive in exchange for transferring the goods. We accept product returns at our discretion or if the product is defective as manufactured. We establish estimated provisions for returns based on historical experience and consideration of other factors that we believe could significantly impact our expected returns.

Recently Issued Accounting Pronouncements

See Note 3 to our financial statements included elsewhere in this Annual Report on Form 10-K for new accounting pronouncements not yet adopted as of the date of this Annual Report on Form 10-K.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risks in the ordinary course of our business. These risks primarily include risk related to interest rate sensitivities and foreign currency exchange rate sensitivity.

Interest Rate Risk

We had cash and cash equivalents and short-term investments of \$213.7 million as of December 31, 2022 which consisted of bank deposits, money market funds, U.S. government securities, commercial paper, corporate bonds/notes, U.S. treasury bills, agency notes and asset-backed securities. The primary objectives of our investment activities are the preservation of capital and support of our liquidity requirements. Our investments are exposed to market risk due to

fluctuations in interest rates, which may affect our income and the fair market value of our investments. If interest rates rise, the market value of our investments may decline, which could result in a realized loss if we sell an investment before its scheduled maturity.

We do not enter into investments for trading or speculative purposes and have not used any derivative financial instruments to manage our interest rate risk exposure. A hypothetical 10% change in interest rates would not have a material impact on the value of our cash and cash equivalents or our short-term investments as of December 31, 2022.

Credit Risk

As of December 31, 2022 and 2021, our cash and cash equivalents were maintained with one financial institution in the United States, and our current deposits are likely in excess of insured limits. We have reviewed the financial statements of this institution and believe it to have sufficient assets and liquidity to conduct its operations in the ordinary course of business with little or no credit risk to us. As of December 31, 2022, our cash equivalents and short-term investments are invested in highly rated money market funds, U.S. government securities, commercial paper, corporate bonds/notes, U.S. treasury bills, agency notes and asset-backed securities. Uncertain financial markets could result in a tightening in the credit markets, a reduced level of liquidity in many financial markets, and extreme volatility in fixed income and credit markets. The credit ratings of securities in our investments could deteriorate and may have an adverse impact on the carrying value of these investments.

Our accounts receivable primarily relate to revenue from the sale of our products to hospitals and medical centers in the United States. No customer represented 10% or more of our accounts receivable as of December 31, 2022 or 2021.

Foreign Currency Risk

Our business is primarily conducted in U.S. dollars. Any transactions that may be conducted in foreign currencies are not expected to have a material effect on our results of operations, financial position or cash flows.

Inflation Risk

Inflationary factors, such as increases in our cost of goods sold and selling and operating expenses, may adversely affect our results of operations. We do not believe that inflation has had a material impact on our business, financial condition or results of operations to date. If our costs were to become subject to significant inflationary pressures, we may not be able to fully offset such higher costs through price increases, which would have an adverse effect on our ability to maintain or increase our gross margin. Our inability or failure to do so could harm our business, financial condition or results of operations.

Item 8. Financial Statements and Supplementary Data

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Silk Road Medical, Inc.

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying balance sheets of Silk Road Medical, Inc. (the "Company") as of December 31, 2022 and 2021, and the related statements of operations and comprehensive loss, of stockholders' equity and of cash flows for each of the three years in the period ended December 31, 2022, including the related notes and schedule of valuation and qualifying accounts for each of the three years in the period ended December 31, 2022 appearing under Item 15(b) (collectively referred to as the "financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

Basis for Opinions

The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Annual Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on the Company's financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the financial statements included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our audit of internal control over financial reporting, included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Revenue recognition

As described in Note 2 to the financial statements, the Company's revenue is generated from the sale of its products to hospitals and medical centers in the United States through direct sales representatives. Revenue is recognized when obligations under the terms of a contract with customers are satisfied, which occurs with the transfer of control of the Company's products to its customers, either upon shipment of the product or delivery of the product to the customer under the Company's standard terms and conditions. The Company's total revenue was \$138.6 million for the year ended December 31, 2022. Revenue is measured as the amount of consideration management expects to receive in exchange for transferring the goods.

The principal consideration for our determination that performing procedures relating to revenue recognition is a critical audit matter is the significant audit effort in performing procedures related to the accuracy and occurrence of revenue transactions.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the revenue recognition process, including controls over the recording of product sales upon shipment of the product or delivery of the product to the customer. These procedures also included, among others, (i) testing revenue transactions by evaluating the settlement of invoices and credit memos, ii) testing credit memos issued during the year, iii) tracing transactions not settled to a detailed listing of accounts receivable; iv) confirming a sample of outstanding customer invoice balances at year end and, for confirmations not returned, obtaining and inspecting source documents, including purchase orders, invoices, sales contracts, proof of delivery, and subsequent cash receipts, where applicable, and iv) testing the completeness and accuracy of data provided by management.

/s/PricewaterhouseCoopers LLP San Jose, California February 28, 2023

We have served as the Company's auditor since 2013.

Silk Road Medical, Inc. Balance Sheets

Assets Current assets: Cash and cash equivalents Short-term investments Accounts receivable, net of allowances of \$3 and \$6 at December 31, 2022 and December 31, 2021, respectively Inventories Inv
Current assets: Cash and cash equivalents \$ 55,358 \$ 12
Cash and cash equivalents \$ 55,358 \$ 15 Short-term investments 158,316 158,316 Accounts receivable, net of allowances of \$3 and \$6 at December 31, 2022 and December 31, 2021, respectively 18,007 2 Inventories 19,293 3 Prepaid expenses and other current assets 3,924 3 Total current assets 254,898 14 Property and equipment, net 9,372 15 Restricted cash 155 5 Other non-current assets 5,260 5 Total assets \$ 269,685 \$ 15 Liabilities and stockholders' equity \$ 269,685 \$ 15 Current liabilities: \$ 269,685 \$ 15
Short-term investments
Accounts receivable, net of allowances of \$3 and \$6 at December 31, 2022 and December 31, 2021, respectively Inventories Prepaid expenses and other current assets Total current assets 254,898 12 Property and equipment, net Restricted cash Other non-current assets Total assets Liabilities and stockholders' equity Current liabilities:
Inventories
Prepaid expenses and other current assets 3,924 Total current assets 254,898 14 Property and equipment, net 9,372 Restricted cash 155 5 Other non-current assets 5,260 5 Total assets \$ 269,685 \$ 15 Liabilities and stockholders' equity Current liabilities: Current liabilities:
Total current assets 254,898 14
Property and equipment, net Restricted cash Other non-current assets Total assets Liabilities and stockholders' equity Current liabilities:
Restricted cash Other non-current assets Total assets Liabilities and stockholders' equity Current liabilities:
Other non-current assets Total assets Liabilities and stockholders' equity Current liabilities:
Total assets \$ 269,685 \$ 15 Liabilities and stockholders' equity Current liabilities:
Liabilities and stockholders' equity Current liabilities:
Current liabilities:
Current liabilities:
Current liabilities:
Accounts payable 2.523
Accrued liabilities 21,965
Short-term debt —
Total current liabilities 24,488
Long-term debt 74,596
Other liabilities 6,726
Total liabilities 105,810
Commitments and contingencies (Note 7)
Stockholders' equity:
Preferred stock, \$0.001 par value
Shares authorized: 5.000.000 at December 31, 2022 and 2021
Shares issued and outstanding: none at December 31, 2022 and 2021 —
Common stock, \$0.001 par value
Shares authorized: 100,000,000 at December 31, 2022 and 2021
Shares issued and outstanding: 38,355,972 and 34,980,896 at December 31, 2022 and 2021, respectively 38
Additional paid-in capital 507,715 36
Accumulated other comprehensive income (loss) (166)
Accumulated deficit (343,712) (28
Total stockholders' equity
Total liabilities and stockholders' equity \$ 269,685 \$ 15

Silk Road Medical, Inc. Statements of Operations and Comprehensive Loss

(in thousands, except share and per share data)	Year Ended December 31,							
		2022		2021		2020		
Revenue	\$	138,638	\$	101,475	\$	75,227		
Cost of goods sold		37,876		25,446		21,291		
Gross profit		100,762		76,029		53,936		
Operating expenses:								
Research and development		36,449		27,110		21,271		
Selling, general and administrative		116,317		96,387		75,524		
Total operating expenses		152,766		123,497		96,795		
Loss from operations		(52,004)		(47,468)		(42,859)		
Interest income		2,527		198		1,104		
Interest expense		(5,098)		(2,518)		(4,411)		
Loss on debt extinguishment		(245)		-		(1,119)		
Other income (expense), net		(190)		(23)		(80)		
Net loss		(55,010)		(49,811)		(47,365)		
Other comprehensive loss:								
Change in unrealized gain (loss) on investments, net		(166)		(39)		37		
Net change in other comprehensive loss		(166)		(39)		37		
Net loss and comprehensive loss	\$	(55,176)	\$	(49,850)	\$	(47,328)		
Net loss per share, basic and diluted	\$	(1.54)	\$	(1.44)	\$	(1.44)		
Weighted average common shares used to compute net loss per share, basic and diluted		35,775,672		34,635,358		32,965,539		

Silk Road Medical, Inc. Statements of Stockholders' Equity

(in thousands, except share data)		A 1.00				Accumulated Other				
	Commo	n St	Amount		Additional	Accumulated Deficit		Comprehensive Income (Loss)		Total
Palanaga at Dagamhar 21, 2010	31,255,267	\$	Amount 31	\$	Paid-in Capital 263,384	\$	(191,526)		¢.	Total 71,891
Balances at December 31, 2019 Issuance of common stock in connection with public offering, net of	31,255,207	Ф	31	Ф	203,384	Ф	(191,520)	\$ 2	\$	71,891
	1 022 076		2		70 F 41					70 5 40
underwriting discount, commissions and offering costs of \$4,457	1,923,076 1,018,779		2		70,541 3,486					70,543 3,487
Exercise of stock options Issuance of common stock under employee stock purchase plan	52,527				1,681		_	_		1,681
	52,527				7,226					7,226
Stock-based compensation Net loss	_		_		1,220		(47.265)	_		
							(47,365)	37		(47,365) 37
Change in unrealized gains on investments, net		_				_	(000,004)			
Balances at December 31, 2020	34,249,649		34		346,318		(238,891)	39		107,500
Exercise of stock options	643,507		1		4,841		_	_		4,842
Issuance of common stock upon vesting of restricted stock units	34,964									
Issuance of common stock under employee stock purchase plan	52,776		_		2,104		_	_		2,104
Stock-based compensation	_		_		14,612		_	_		14,612
Disgorgement of short-swing profits, net	_		_		32			_		32
Net loss	_		_		_		(49,811)			(49,811)
Change in unrealized loss on investments, net								(39)		(39)
Balances at December 31, 2021	34,980,896		35		367,907		(288,702)	_		79,240
Issuance of common stock in connection with public offering, net of										
underwriting discount, commissions and offering costs of \$6,008	2,674,419		3		108,989		_	_		108,992
Exercise of stock options	453,199		_		3,364		_	_		3,364
Issuance of common stock upon vesting of restricted stock units	148,239		_		_		_	_		_
Issuance of common stock under employee stock purchase plan	99,219		_		2,432		_	_		2,432
Stock-based compensation	_		_		25,023		_	_		25,023
Net loss	_		_		_		(55,010)	_		(55,010)
Change in unrealized loss on investments, net	_		_		_		_	(166)		(166)
Balances at December 31, 2022	38,355,972	\$	38	\$	507,715	\$	(343,712)	\$ (166)	\$	163,875

Silk Road Medical, Inc. Statements of Cash Flows

(in thousands)			Year Ended December 31,		
(in discussion)	-	2022	2021		2020
Cash flows from operating activities					_,_,
Net loss	\$	(55,010)	\$ (49,811)	\$	(47,365)
Adjustments to reconcile net loss to net cash used in operating activities:		(,,	(, , ,		(,,
Depreciation and amortization expense		2.127	1.032		789
Stock-based compensation expense		25.023	14.612		7.226
Amortization of premiums (accretion of discounts) on investments, net		(1,419)	577		304
Amortization of debt discount and debt issuance costs		218	158		66
Amortization of right-of-use asset		1,041	887		602
Non-cash interest expense		1.037	_		241
Loss on extinguishment of debt		245	_		1.119
Loss on disposal of property and equipment		180	9		52
Change in provision for doubtful accounts receivable		(3)	6		(32)
Provision for excess and obsolete inventories		6	77		117
Changes in operating assets and liabilities:		· ·			11.
Accounts receivable		(6,172)	(2,769)		(437)
Inventories		(1,447)	(5,563)		(2,161)
Prepaid expenses and other current assets		(525)	(772)		250
Other assets		(27)	(117)		210
Accounts payable		967	(1,159)		592
Accrued liabilities		1,868	4,418		146
Other liabilities		(690)	(520)		26
Repayment of interest paid in kind		(090)	(320)		(3,813)
Net cash used in operating activities		(32,581)	(38,935)		(42,068)
Cash flows from investing activities		(32,381)	(38,935)		(42,068)
Purchases of property and equipment		(5,005)	(4,758)		(842)
Proceeds from sale of property and equipment		(5,005)	(4,758)		(842)
		(160,160)	2		(70,000)
Purchases of investments		(168,163)	77.400		(79,906)
Proceeds from maturity of investments		11,100	77,400		71,355
Net cash provided by (used in) investing activities		(162,068)	72,644		(9,393)
Cash flows from financing activities					
Proceeds from public offerings, net of underwriting discount, commissions and offering costs paid		108,992	_		70,568
Proceeds from long-term debt, net		73,911			48,506
Proceeds from issuance of common stock		5,796	6,946		5,168
Principal repayment of long-term debt		(49,000)	_		(40,000)
Payments of prepayment penalty and lender fees		_	_		(2,496)
Proceeds from disgorgement of short-swing profits, net			32		
Net cash provided by financing activities		139,699	6,978		81,746
Net change in cash, cash equivalents and restricted cash		(54,950)	40,687		30,285
Cash, cash equivalents and restricted cash, beginning of year		110,463	69,776		39,491
Cash, cash equivalents and restricted cash, end of year	\$	55,513	\$ 110,463	\$	69,776
				-	
Supplemental disclosure of cash flow information					
Cash paid for interest	\$	3,843	\$ 2,360	\$	7,917
Cash paid for interest	<u>*</u>	3,043	Ψ 2,300	Ψ	1,511
Name of the state					
Noncash investing and financing activities:					
Accounts payable and accrued liabilities for purchases of property and equipment	\$	117	\$ 1,138	\$	108
Unpaid deferred offering costs	\$		\$	\$	25
Right-of-use asset obtained in exchange for lease obligation	\$	903	\$ 3,307	\$	
. ag. t. o. doo decet obtained in exertainge for reade obligation	<u> </u>		. 0,001	<u> </u>	

Formation and Business of the Company

The Company

Silk Road Medical, Inc., or the Company, was incorporated in the state of Delaware on March 21, 2007. The Company has developed a technologically advanced, minimally-invasive solution for patients with carotid artery disease who are at risk for stroke. The Company's portfolio of products enable a procedure referred to as transcarotid artery revascularization, or TCAR, that combines the benefits of endovascular techniques and surgical principles. The Company manufactures and sells in the United States its portfolio of TCAR products which are designed to provide direct access to the carotid artery, effective reduction in stroke risk throughout the procedure, and long-term restraint of carotid plaque. The Company commercialized its products in the United States beginning in late 2015.

Liquidity

In the course of its activities, the Company has incurred losses and negative cash flows from operations since its inception. As of December 31, 2022, the Company had an accumulated deficit of \$343,712,000. The Company expects to incur losses for the foreseeable future. The Company believes that its cash and cash equivalents and available-for-sale securities of \$213,674,000 as of December 31, 2022, as well as its expected revenues will provide sufficient funds to allow the Company to fund its planned current operations for the next 12 months from the issuance of these financial statements.

Public Offerings

In October 2022, the Company completed an underwritten public offering of 2,674,419 shares of its common stock at a public offering price of \$43.00 per share. The shares include the full exercise of the underwriters' option to purchase an additional 348,837 shares pursuant to the underwriting agreement. The Company received cash proceeds of approximately \$108,992,000 after deducting underwriting discounts and commissions of approximately \$5,750,000 and expenses of approximately \$258,000.

In May 2020, the Company completed an underwritten public offering of 6,808,154 shares of its common stock, of which 1,923,076 shares were offered for sale by the Company and the remaining 4,885,078 shares were offered for sale by certain selling stockholders, at a public offering price of \$39.00 per share. The Company received cash proceeds of approximately \$70,543,000 after deducting underwriting discounts and commissions of approximately \$3,750,000 and expenses of approximately \$707,000. Also, in May 2020, the underwriters fully exercised their option to purchase 1,021,223 additional shares of common stock from the selling stockholders. The Company did not receive any of the proceeds from the sale of the shares of its common stock by the selling stockholders.

Summary of Significant Accounting Policies

Basis of Preparation

The accompanying financial statements have been prepared in accordance with the accounting principles generally accepted in the United States of America, or U.S. GAAP.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the amounts and disclosures reported in the financial statements. Management uses judgment when making estimates related to provisions for accounts receivable and excess and obsolete inventories, the valuation of deferred tax assets, the reserves for sales returns, and stock-based compensation. Management bases its estimates on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Although these estimates are based on the Company's knowledge of current events and actions it may undertake in the future, actual results may ultimately differ from these estimates and assumptions

Due to the coronavirus, or COVID-19, pandemic, there has been continued uncertainty and disruption in the global economy, supply chain, financial markets and labor markets. New virus variants and varying infection rates continue to make the current COVID-related environment highly volatile and uncertain. These challenges continued to impact the number of TCAR procedures in 2022, with procedure volumes impacted by increased COVID-19 hospitalizations and

hospital capacity and staffing constraints due to COVID-19 and its variants. The Company is not aware of any specific event or circumstance that would require an update to its estimates or judgments or a revision of the carrying value of its assets or liabilities as of December 31, 2022. The Company has also considered information available to it as of the date of issuance of these financial statements and is not aware of any specific events or circumstances that would require an update to its estimates or judgments, or a revision to the carrying value of its assets or liabilities. These estimates may change as new events occur and additional information becomes available. Actual results could differ materially from these estimates.

Fair Value of Financial Instruments

The Company has evaluated the estimated fair value of its financial instruments as of December 31, 2022 and 2021. The carrying amounts of certain of the Company's financial instruments, which include cash equivalents, short-term investments, restricted cash, accounts receivable, accounts payable and accrued liabilities approximate their respective fair values because of the short-term nature of these instruments. Management believes that its debt bears interest at the prevailing market rates for instruments with similar characteristics (Level 2 within the fair value hierarchy); accordingly, the carrying value of this instrument approximates its fair value.

Cash, Cash Equivalents and Restricted Cash

The Company considers all highly liquid investments with an original maturity of three months or less at the time of purchase to be cash equivalents. Cash equivalents are recorded at fair value, based on quoted market prices. As of December 31, 2022 and 2021, the Company's cash equivalents are entirely comprised of investments in money market funds.

The following table provides a reconciliation of cash, cash equivalents and restricted cash reported within the balance sheets that sum to the total of the same amounts shown in the statements of cash flows (in thousands):

	December 31,			
	2022		2021	
Cash and cash equivalents	\$ 55,358	\$	110,231	
Restricted cash	 155		232	
Total cash, cash equivalents and restricted cash	\$ 55,513	\$	110,463	

Restricted cash as of December 31, 2022 and 2021 consists of a letter of credit of \$155,000 and \$232,000, respectively, representing collateral for the Company's facility lease in California.

Investments

Short-term investments consist of debt securities classified as available-for-sale and have original maturities greater than 90 days, but less than one year as of the balance sheet date. Long-term investments have maturities greater than one year as of the balance sheet date. All investments are recorded at fair value based on the fair value hierarchy. Unrealized gains and losses, deemed temporary in nature, are reported as a separate component of accumulated other comprehensive income (loss). Realized gains and losses are included in earnings and are derived based on the specific-identification method for determining the costs of investments sold and were insignificant for the years ended December 31, 2022, 2021 and 2020. Amortization of premiums and accretion of discounts are reported as a component of interest income.

A decline in the fair value of any security below cost that is deemed other than temporary results in a charge to earnings and the corresponding establishment of a new cost basis for the investment. The Company evaluates the securities in an unrealized loss position for expected credit losses by considering factors such as historical experience, market data, issuerspecific factors, current economic conditions and credit ratings. The Company did not recognize any credit losses on its available-for-sale securities during the years ended December 31, 2022, 2021 or 2020 and there were no impairment charges for unrealized losses in the periods presented.

Concentration of Credit Risk, and Other Risks and Uncertainties

The Company is subject to risks related to public health crises such as the global pandemic associated with COVID-19. The COVID-19 outbreak has negatively impacted, and may continue to negatively impact the Company's operations, its revenue and overall financial condition by significantly decreasing the expected number of TCAR procedures performed. The total number of TCAR procedures performed, similar to other surgical procedures, has been significantly depressed

during certain periods of time as health care organizations globally prioritized the treatment of patients with COVID-19 and managed through capacity and staffing issues. In the past governmental or hospital authorities have recommended, and in certain cases required, that elective, specialty and other procedures and appointments, be suspended or canceled to focus limited resources and personnel and hospital capacity toward the treatment of COVID-19 and to avoid exposing patients and certain staff to COVID-19. These measures and challenges will likely continue for the duration of the pandemic, which is uncertain, and may continue to negatively impact the Company's revenue while the pandemic continues. New virus variants, and varying infection rates continue to make the current COVID-related environment highly volatile and uncertain.

Financial instruments that potentially subject the Company to credit risk consist of cash and cash equivalents, investments and accounts receivable to the extent of the amounts recorded on the balance sheet. Cash, cash equivalents, and investments are deposited in financial institutions which, at times, may be in excess of federally insured limits. Cash equivalents are invested in highly rated money market funds. The Company invests in a variety of financial instruments, such as, but not limited to, commercial paper, corporate bonds/notes, United States Government securities, United States Treasury bills, agency notes, asset-backed securities and, by policy, limits the amount of credit exposure with any one financial institution or commercial issuer. The Company has not experienced any material losses on its deposits of cash and cash equivalents or investments during the years ended December 31, 2022, 2021 and 2020.

The Company's accounts receivable are due from a variety of hospitals and medical centers in the United States. As of December 31, 2022 and 2021, no customer represented 10% or more of the Company's accounts receivable. For the years ended December 31, 2022, 2021 and 2020, there were no customers that represented 10% or more of revenue.

The Company provides for uncollectible amounts when specific credit problems are identified. In doing so, the Company analyzes historical bad debt trends, customer credit worthiness, current economic trends and changes in customer payment patterns when evaluating the adequacy of the allowance for expected credit losses on customer accounts.

The Company manufactures certain of its commercial products in-house. Certain of the Company's product components and sub-assemblies continue to be manufactured by sole suppliers, the most significant of which is the ENROUTE Transcarotid Stent System, manufactured by Cordis Corporation, or Cordis. Disruption in component or sub-assembly supply from these manufacturers or from in-house production would have a negative impact on the Company's financial position and results of operations.

The Company is subject to certain risks, including that its devices may not be approved or cleared for marketing by governmental authorities or be successfully marketed. There can be no assurance that the Company's products will achieve widespread adoption in the marketplace, nor can there be any assurance that existing devices or any future devices can be developed or manufactured at an acceptable cost and with appropriate performance characteristics. The Company is also subject to risks common to companies in the medical device industry, including, but not limited to, new technological innovations, dependence upon government and third-party payers to provide adequate coverage and reimbursement, dependence on key personnel and suppliers, protection of proprietary technology, product liability claims, and compliance with government regulations.

Existing or future devices developed by the Company may require approvals or clearances from the U.S. Food and Drug Administration, or FDA, or international regulatory agencies. In addition, in order to continue the Company's operations, compliance with various federal and state laws is required. If the Company were denied or delayed in receiving such approvals or clearances, it may be necessary to adjust operations to align with the Company's currently approved portfolio. If clearance for the products in the current portfolio were withdrawn by the FDA, this would have a material adverse impact on the Company.

Accounts Receivable

Trade accounts receivable are recorded at the invoiced amount and do not bear interest. The Company estimates allowances for expected credit losses. Specifically, the Company makes estimates on the collectability of customer accounts based primarily on analysis of historical trends and experience and changes in customers' financial condition. The Company uses its judgment, based on the best available facts and circumstances, and records an allowance against amounts due to reduce the receivable to the amount that is expected to be collected. These specific allowances are reevaluated and adjusted as additional information is received that impacts the amount reserved. During the years ended December 31, 2022, 2021 and 2020, the Company did not experience any material credit-related losses.

Inventories

Inventories are valued at the lower of cost to purchase or manufacture the inventory or net realizable value. Cost is determined using the first-in, first-out method for all inventories. Net realizable value is determined as the estimated selling prices in the ordinary course of business, less reasonably predictable costs of completion, disposal and transportation. The Company regularly reviews inventory quantities in consideration of actual loss experiences, projected future demand, and remaining shelf life prior to sale to record a provision for excess and obsolete inventory when appropriate. The Company's policy is to write down inventory that has become obsolete, inventory that has a cost basis in excess of its expected lower of cost or net realizable value, and inventory in excess of expected requirements. The estimate of excess quantities is judgmental and primarily dependent on the Company's estimates of future demand for a particular product. If the estimate of future demand is too high, the Company may have to increase the reserve for excess inventory for that product and record a charge to the cost of goods sold.

Property and Equipment

Property and equipment are recorded at cost less accumulated depreciation or amortization. Repairs and maintenance costs are expensed as incurred. Depreciation and amortization are calculated using the straight-line method over the estimated useful lives of the assets, typically three years to five years. Leasehold improvements are amortized using the straight-line method over the shorter of the lease term or estimated useful economic life of the asset. When assets are retired or otherwise disposed of, the cost and accumulated depreciation are removed from the balance sheet and any resulting gain or loss is reflected in operations in the period realized.

Impairment of Long-Lived Assets

The Company reviews long-lived assets, including property and equipment, for impairment whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable. If indicators of impairment exist, an impairment loss would be recognized when estimated undiscounted future cash flows expected to result from the use of the assets and their eventual disposition are less than their carrying amount. Impairment, if any, is measured as the amount by which the carrying amount of the long-lived assets exceeds their fair value. The Company did not record any impairment of long-lived assets during the years ended December 31, 2022, 2021 and 2020.

Leases

The Company accounts for its leasing arrangements in accordance with Accounting Standards Codification, or ASC 842, "Leases." The Company considers if an arrangement is a lease at inception if it obtains the right to control the use of an identified asset under a leasing arrangement with an initial term greater than twelve months. The Company determines whether a contract conveys the right to control the use of an identified asset for a period of time if the contract contains both the right to obtain substantially all of the economic benefits from the use of the identified asset and the right to direct the use of the identified asset. The Company also evaluates the nature of each lease to determine whether it is an operating or financing lease and recognizes the right-of-use asset and lease liabilities based on the present value of future minimum lease payments over the expected lease term. The Company's leases do not generally contain an implicit interest rate and therefore the Company uses the incremental borrowing rate it would expect to pay to borrow on a similar collateralized basis over a similar term in order to determine the present value of its lease payments. The Company considers renewal options in the determination of the lease term if the option to renew is reasonably certain. Variable lease costs represent payments that are dependent on usage, a rate or index. Variable lease costs, which consists primarily of taxes, insurance and common area maintenance costs, are expensed as incurred. The Company elected to account for contracts that contain lease and non-lease components as a single component, consistent with its historical practice. The Company does not have any finance leases.

Revenue Recognition

The Company recognizes revenue in accordance with ASC Topic 606, "Revenue from Contracts with Customers." Under ASC 606, revenue is recognized when a customer obtains control of promised goods or services, in an amount that reflects the consideration which the entity expects to receive in exchange for those goods or services. To determine revenue recognition for arrangements that an entity determines are within the scope of ASC 606, the Company performs the following five steps:

- (i) identify the contract(s) with a customer;
- (ii) identify the performance obligations in the contract;

- (iii) determine the transaction price;
- (iv) allocate the transaction price to the performance obligations in the contract; and
- (v) recognize revenue when (or as) the entity satisfies a performance obligation

As of December 31, 2022 and 2021, the Company recorded \$148,000 and \$87,000, respectively, of unbilled receivables, which are included in accounts receivable, net on the balance sheet, as the Company has an unconditional right to payment as of the end of the applicable period.

The Company's revenue is generated from the sale of its products to hospitals and medical centers in the United States through direct sales representatives. Revenue is recognized when obligations under the terms of a contract with customers are satisfied, which occurs with the transfer of control of the Company's products to its customers, either upon shipment of the product or delivery of the product to the customer under the Company's standard terms and conditions. The Company's products are readily available for usage as soon as the customer possesses it. Upon receipt, the customer controls the economic benefits of the product, has significant risks and rewards, and the legal title. The Company has present right to payment; therefore, the transfer of control is deemed to happen at a point in time. Revenue is measured as the amount of consideration the Company expects to receive in exchange for transferring the goods

For sales where the Company's sales representative hand delivers product directly to the hospital or medical center from the sales representative's trunk stock inventory, the Company recognizes revenue upon delivery, which represents the point in time when control transfers to the customer. Upon delivery there are legally-enforceable rights and obligations between the parties which can be identified, commercial substance exists and collectability is probable. For sales which are sent directly from the Company to hospitals and medical centers, the transfer of control occurs at the time of shipment or delivery of the product. There are no further performance obligations by the Company or the sales representative to the customer after delivery under either method of sale. As allowed under the practical expedient, the Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less and (ii) contracts for which it recognizes revenue at the amount to which it has the right to invoice for services performed

The Company is entitled to the total consideration for the products ordered by customers as product pricing is fixed according to the terms of customer contracts and payment terms are short. Payment terms fall within the one-year guidance for the practical expedient which allows the Company to forgo adjustment of the promised amount of consideration for the effects of a significant financing component. The Company excludes taxes assessed by governmental authorities on revenue-producing transactions from the measurement of the

Costs associated with product sales include commissions and royalties. The Company applies the practical expedient and recognizes commissions and royalties as expense when incurred because the expense is incurred at a point in time and the amortization period is less than one year. Commissions are recorded as selling expense and royalties are recorded as cost of goods sold in the statements of operations and comprehensive loss.

The Company accepts product returns at its discretion or if the product is defective as manufactured. The Company establishes estimated provisions for returns based on historical experience and considers other factors that it believes could significantly impact its expected returns, which provisions are classified within accrued liabilities on the balance sheet. The Company elected to expense shipping and handling costs as incurred and includes them in the cost of goods sold. In those cases where the Company bills shipping and handling costs to customers, it will classify the amounts billed as a component of revenue.

Cost of Goods Sold

The Company manufactures certain of its portfolio of TCAR products at its California and Minnesota facilities and purchases other products from third party manufacturers. Cost of goods sold consists primarily of costs related to materials, components and sub-assemblies, manufacturing overhead costs, direct labor, reserves for excess, obsolete and non-sellable inventories as well as distribution-related expenses. A significant portion of the Company's cost of goods sold currently consists of manufacturing overhead costs. These overhead costs include the cost of quality control, material procurement, inventory control, facilities, equipment and operations supervision and management. Cost of goods sold also includes depreciation expense for production equipment and certain direct costs such as shipping costs and royalties. The Company entered into the lease for its additional facility in Minnesota in May 2021 and did not begin commercial production until the third quarter of 2022. During this time, the Company experienced additional overhead

expenses related to its investment in the start-up phase of its manufacturing capacity expansion, which were recorded as a period expense.

Research and Development

The Company expenses research and development costs as incurred. Research and development expenses consist primarily of engineering, product development, clinical studies to develop and support the Company's products, regulatory expenses, medical affairs and other costs associated with products and technologies that are in development. Research and development expenses include employee compensation, including stock-based compensation, supplies, consulting, prototyping, testing, materials, travel expenses, depreciation and an allocation of facility overhead expenses. Additionally, clinical studies include costs associated with clinical trial design, clinical site reimbursement, data management, travel expenses and the cost of products used for clinical trials and internal and external costs associated with the Company's regulatory compliance and quality assurance functions, including the costs of outside consultants and contractors that assist in the process of submitting and maintaining regulatory fillings, and overhead costs.

Clinical Trials

The Company accrues and expenses costs for its clinical trial activities performed by third parties, including any clinical research organizations and other service providers, based upon estimates of the work completed over the life of the individual study in accordance with associated agreements. The Company determines these accruals through discussion with internal personnel and outside service providers as to progress or stage of completion of trials or services pursuant to contracts with clinical research organizations and other service providers and the agreed-upon fee to be paid for such services.

Advertising Costs

The Company expenses advertising costs as incurred. Advertising costs include design and production costs, including website development, physician and patient testimonial videos, written media campaigns, and other items. Advertising costs of \$347,000, \$221,000 and \$194,000 were expensed during the years ended December 31, 2022, 2021 and 2020, respectively.

Foreign Currency

The Company records net gains and losses resulting from foreign exchange transactions as a component of foreign currency exchange gains or losses in other income (expense), net. The Company had no material foreign currency exchange gains or losses during the years ended December 31, 2022, 2021 and 2020.

Stock-Based Compensation

The Company accounts for stock-based compensation in accordance with Financial Accounting Standards Board, or FASB, ASC 718, "Compensation-Stock Compensation." ASC 718 requires the recognition of compensation expense, using a fair-value based method, for costs related to all share-based payments including stock options, restricted stock units, performance stock units, and shares issued under its employee stock purchase plan. ASC 718 requires companies to estimate the fair value of all share-based payment option awards on the date of grant using an option pricing model. The fair value of stock options is recognized over the period during which an optionee is required to provide services in exchange for the option award, known as the requisite service period (usually the vesting period), on a straight-line basis. The Company accounts for option forfeitures as they occur.

The Company accounts for stock-based compensation for restricted stock units at their fair value, based on the closing market price of the Company's common stock on the date of grant. These costs are recognized on a straight-line basis over the requisite service period, which is usually the vesting period.

The Company accounts for stock-based compensation for performance stock units with market-based conditions at their fair value on the date of the award using the Monte Carlo simulation model. These costs are recognized on a straight-line basis over the requisite service period, which is usually the vesting period, regardless of the likelihood of achievement of the market-based performance criteria

The Company accounts for stock-based compensation for its employee stock purchase plan based on the estimated fair value of the options on the date of grant. The Company estimates the grant date fair value using an option pricing model for each purchase period. These costs are recognized on a straight-line basis over the offering period 90

Income Taxes

The Company accounts for income taxes under the liability method, whereby deferred tax assets and liabilities are determined based on the difference between the financial statements and tax bases of assets and liabilities using the enacted tax rates in effect for the year in which the differences are expected to affect taxable income. A valuation allowance is established when necessary to reduce deferred tax assets to the amounts expected to be realized. As the Company has historically incurred operating losses, it has established a full valuation allowance against its net deferred tax assets, and there is no provision for income taxes.

The Company also follows the provisions of ASC 740-10, "Accounting for Uncertainty in Income Taxes." ASC 740-10 prescribes a comprehensive model for the recognition, measurement, presentation and disclosure in financial statements of any uncertain tax positions that have been taken or expected to be taken on a tax return. No liability related to uncertain tax positions is recorded on the financial statements. It is the Company's policy to include penalties and interest expense related to income taxes as part of the provision for income taxes.

Comprehensive Loss

Comprehensive loss consists of net loss and changes in unrealized gains and losses on investments classified as available-for-sale. For the years ended December 31, 2022, 2021 and 2020, the Company's unrealized gains and losses on available-for-sale investments represent the only component of other comprehensive loss that are excluded from the reported net loss and that are presented in the statements of operations and comprehensive loss. Accumulated other comprehensive income (loss) is presented in the accompanying balance sheets as a component of stockholders' equity.

Net Loss per Share

Basic net loss per share is computed by dividing the net loss by the weighted average number of shares of common stock outstanding during the period, without consideration for potential dilutive common shares. Diluted net loss per share is computed by dividing the net loss by the weighted average number of shares of common stock and potentially dilutive securities outstanding for the period. For purposes of the diluted net loss per share calculation, common stock options, restricted stock units and performance stock units are considered to be potentially dilutive securities. Since the Company was in a loss position for all periods presented, basic net loss per share is the same as diluted net loss per share as the inclusion of all potential dilutive common shares would have been anti-dilutive.

Net loss per share was determined as follows (in thousands, except share and per share data):

	Year Ended December 31,						
		2022		2021		2020	
Net loss	\$	(55,010)	\$	(49,811)	\$	(47,365)	
Weighted average common stock outstanding used to compute net loss per share, basic and diluted		35,775,672		34,635,358		32,965,539	
Net loss per share, basic and diluted	\$	(1.54)	\$	(1.44)	\$	(1.44)	

The following potentially dilutive securities outstanding have been excluded from the computation of diluted weighted average shares outstanding because such securities have an antidilutive impact due to the Company's net loss:

		December 31,	
	2022	2021	2020
Common stock options	3,839,858	3,780,939	4,237,828
Restricted stock units and performance stock units	1,329,824	530,274	68,396
Total	5,169,682	4,311,213	4,306,224

Segment and Geographical Information

The Company operates and manages its business as one reportable and operating segment. The Company's chief executive officer, who is the chief operating decision maker, reviews financial information on an aggregate basis for purposes of allocating resources and evaluating financial performance. Primarily all of the Company's long-lived assets are based in the United States. Long-lived assets are comprised of property and equipment. All of the Company's revenue

was in the United States for the years ended December 31, 2022, 2021 and 2020, based on the shipping location of the external customer.

3. Recent Accounting Pronouncements

Recently Adopted Accounting Standards

In October 2021, the FASB issued ASU No. 2021-08, Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers, or ASU 2021-08, which creates an exception to the general recognition and measurement principle in ASC 805 by requiring companies to apply ASC 606 to recognize and measure contract assets and contract liabilities from contracts with customers acquired in a business combination. The guidance additionally clarifies that companies should apply the definition of a performance obligation in ASC 606 when recognizing contract liabilities assumed in a business combination. The Company early adopted ASU 2021-08 as of January 1, 2022, on a prospective basis. The adoption of ASU 2021-08 did not have a material impact on the Company's financial statements and related disclosures.

4. Fair Value Measurements

The Company measures certain financial assets and liabilities at fair value on a recurring basis, including cash equivalents and investments. Fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or a liability. A three-tier fair value hierarchy is established as a basis for considering such assumptions and for inputs used in the valuation methodologies in measuring fair value:

- Level 1 quoted prices in active markets are identical assets and liabilities;
- Level 2 observable inputs other than quoted prices in active markets for identical assets and liabilities;
- Level 3 unobservable inputs.

Assets and liabilities measured at fair value are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires management to make judgments and consider factors specific to the asset or liability. The Company's investments classified within Level 1 of the fair value hierarchy include money market funds valued using quoted market prices and U.S. government treasury bills valued using broker or dealer quotations with reasonable levels of price transparency. Investments classified within Level 2 include commercial paper, which are valued using model-based valuation techniques, and corporate bonds/notes, asset-backed securities, U.S. government securities, and agency notes which are valued based upon quoted market prices for similar instruments in active markets or quoted prices for identical or similar instruments in markets that are not active for which all significant inputs are observable in the market or can be corroborated by observable market data for substantially the full term of the assets.

The following tables sets forth by level within the fair value hierarchy the Company's assets that are reported at fair value as of December 31, 2022 and 2021 using the inputs defined above (in thousands):

	December 31, 2022							
		Level 1		Level 2		Level 3		Total
Assets:								
Money market funds	\$	55,158	\$	_	\$	_	\$	55,158
U.S. treasury bills		19,776		_		_		19,776
Commercial paper		_		48,875		_		48,875
Corporate bonds/notes		_		1,515		_		1,515
U.S. government securities		_		83,270		_		83,270
Asset-backed securities		_		1,996		_		1,996
Agency notes		_		2,884		_		2,884
	\$	74,934	\$	138,540	\$		\$	213,474

		December 31, 2021							
	_	Level 1	Level 2	Level 3	Total				
Assets:	_								
Money market funds	\$	21,062	\$ <u> </u>	\$ <u> </u>	\$ 21,062				
	\$	21,062	\$ —	\$	\$ 21,062				

There were no transfers between fair value hierarchy levels during the years ended December 31, 2022, 2021, and 2020.

5. Balance Sheet Components

Investments

The Company's cash equivalents consists of \$21,062,000 in money market funds as of December 31, 2021 and approximates fair value. The fair value of the Company's available-for-sale investments as of December 31, 2022 are as follows (in thousands):

			December	131, 20	22	
			Gross U	nrealize	ed	Estimated
	Α	mortized Cost	Gains		Losses	Fair Value
Money market funds	\$	55,158	\$ _	\$	_	\$ 55,158
U.S. treasury bills		19,772	4		_	19,776
Commercial paper		48,875	_		_	48,875
Corporate bonds/notes		1,528	_		(13)	1,515
U.S. government securities		83,432	2		(164)	83,270
Asset-backed securities		2,000	_		(4)	1,996
Agency notes		2,876	8		<u> </u>	2,884
	\$	213,641	\$ 14	\$	(181)	\$ 213,474
Classified as:						
Cash equivalents						\$ 55,158
Short-term investments						158,316
						\$ 213,474

The following table summarizes the fair value of the Company's cash equivalents and available-for-sale investments classified by maturity as of December 31, 2022 and 2021 (in thousands):

	ember 31, 2022	December 31, 2021			
Amounts maturing within one year	\$ 213,474	\$ 21,062			
Amounts maturing after one year through two years	_	_			
	\$ 213,474	\$ 21,062			

Available-for-sale investments held as of December 31, 2022 had a weighted average days to maturity of 163 days.

The following table presents the Company's available-for-sale investments that were in an unrealized loss position as of December 31, 2022 (in thousands):

		December 31, 2022									
		Less than 12 months									
Assets:	Fair Va	lue		Unrealized Loss							
Corporate bonds/notes	\$	1,490	\$		(13)						
U.S. government securities		73,329			(164)						
Asset-backed securities		1,994			(4)						
	\$	76,813	\$		(181)						

Inventories

Components of inventories were as follows (in thousands):

	2022	2021
Raw materials	\$ 4,913	\$ 2,447
Finished products	14,380	15,404
	\$ 19,293	\$ 17,851

As of December 31, 2022 and 2021, there were no work-in-process inventories.

Property and Equipment, Net

Property and equipment, net consisted of the following (in thousands):

	December 31,				
	2022		2021		
Furniture and fixtures	\$ 1,822	\$	1,005		
Equipment	5,046		2,945		
Software	296		284		
Leasehold improvements	7,246		2,050		
	14,410		6,284		
Less: Accumulated depreciation	(5,355)		(3,330) 4,743		
Add: Construction-in-progress	317		4,743		
	\$ 9,372	\$	7,697		

Depreciation and amortization expense was \$2,127,000, \$1,032,000 and \$789,000 for the years ended December 31, 2022, 2021 and 2020, respectively.

Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

		December 31,			
	2	022		2021	
Accrued payroll and related expenses	\$	15,216	\$	13,898	
Operating lease liability		1,844		1,294	
Accrued royalty expense		973		687	
Accrued professional services		781		2,039	
Accrued travel expenses		775		590	
Provision for sales returns		540		359	
Accrued interest payable		519		14	
Deferred revenue		253		157	
Accrued clinical expenses		249		99	
Accrued other expenses		815		665	
	\$	21.965	\$	19.802	

6. Long-term Debt

In October 2015, the Company entered into a term loan agreement with CRG. The term loan agreement provides for up to \$30,000,000 in term loans split into two tranches as follows: (i) the Tranche A Loans provided for \$20,000,000 in term loans, and (ii) the Tranche B Loans provided for up to \$10,000,000 in term loans. The Company drew down the Tranche A Loans on October 13, 2015. The Tranche B Loans were available to be drawn prior to March 29, 2017. In January 2017, the term loan agreement was amended to extend the commitment period of the Tranche B Loans to April 28, 2017. In April 2017, the Company drew down \$5,000,000 of the available Tranche B Loans.

In September 2018, the term loan agreement was amended to provide for additional term loans in an aggregate principal amount of up to \$25,000,000. In September 2018, the Company drew down an additional \$15,000,000 under the amended term loan agreement with CRG, no additional draw was taken. Under the terms of the amended term loan agreement, the related fixed interest rate was 10.0%, 8.0% of the interest was due and payable in cash and at the election of the Company, 2.0% of the interest due and payable may be "paid in kind". All unpaid principal, and accrued and unpaid interest, was due and payable in full on December 31, 2022.

On October 29, 2020, in connection with the consummation of the Loan and Security agreement with Stifel Bank as noted below, the Company repaid all amounts outstanding under the term loan with CRG. The Company recognized a loss on debt extinguishment of \$1,119,000 in connection with the early termination of its prior term loan agreement with CRG.

Stifel Bank

In October 2020, the Company entered into a Loan and Security Agreement with Stifel Bank which provided for a \$50,000,000 loan facility, comprised of a \$50,000,000 secured revolving credit facility, with a \$2,000,000 subfacility for the issuance of letters of credit and other ancillary banking services, and a \$50,000,000 secured term loan facility, provided that amounts outstanding under both facilities may not exceed an aggregate principal amount of \$50,000,000 at any time. Interest under the revolving credit facility was the greater of a) 0.5% above the "Prime Rate" as published by The Wall Street Journal or b) 4.75%. Interest under the term loan facility was the greater of a) 0.75% above the "Prime Rate" as published by The Wall Street Journal or b) 4.75%. The Company drew down \$49,000,000 under the term loan facility in October 2020. Concurrent with the Loan and Security Agreement, the Company entered in a Success Fee Agreement in October 2020 with Stifel Bank, which requires that the Company pay Stifel Bank the lesser of 0.75% of the original principal amount of all credit extensions made under the Loan and Security Agreement or \$375,000 in the event the Company completes a Liquidity Event (liquidation, merger, sale of the Company or change in control). The Success Fee Agreement terminates on October 29, 2025. The Company has determined the probability of a Liquidity Event to be remote and accordingly, has not recognized a liability as of December 31, 2022.

On May 27, 2022, in connection with the consummation of the Loan and Security Agreement with Oxford Finance, as noted below, the Company repaid all amounts outstanding under the term loan with Stifel Bank. The Success Fee Agreement obligations, of \$367,500, survive the Stifel Bank debt repayment and terminate on October 29, 2025.

Oxford Finance

In May 2022, the Company entered into a Loan and Security Agreement, or Loan Agreement, with Oxford Finance LLC and its agents, or Oxford Finance, which provides for a \$225,000,000 loan facility, comprised of a \$25,000,000 secured revolving credit facility and a \$200,000,000 secured term loan facility. The term loans are available in three tranches. The first \$75,000,000 tranche of term loans was available at closing in May 2022. A second tranche of \$75,000,000 of term loans is available through December 31, 2024. A third tranche of \$50,000,000 would be available through December 31, 2024 so long as, at the time of draw, the Company has consolidated trailing 12-month revenues equal to at least 90% of the sum of the outstanding term loans plus the amount of any requested third tranche term loans.

Upon request of the Company, the revolving credit facility will be increased from \$25,000,000 to \$50,000,000. The revolving loans are available subject to a borrowing base equal to 85% of eligible receivables plus 50% of eligible inventory, up to the lesser of 40% of the borrowing base or \$10,000,000, in the case of eligible inventory. The revolving facility will be available to the Company upon completion of an initial collateral audit.

The revolving loans and the term loans mature on May 1, 2027. The principal amount of outstanding revolving loans, together with accrued and unpaid interest, is due on the maturity date. The term loans begin to amortize in equal monthly installments beginning on July 1, 2026. As the Company achieved a specified consolidated trailing twelve-month revenue target, it has the option to extend the first amortization date for the term loans to July 1, 2027. Such election may be made no earlier than June 30, 2023 and no later than thirty (30) days prior to July 1, 2026. If the Company exercises this option, then the maturity date for both the revolving loans and the term loans will be May 1, 2028.

The revolving loans accrue interest at the greater of 1-month Secured Overnight Financing Rate (SOFR), or the Index Rate, and 0.85%, plus a margin of 3.00%. The term loans accrue interest at the greater of the Index Rate and 0.85%, plus a margin of 5.00%. The Index Rate is capped at 2.50% for purposes of the Loan Agreement. Interest on both revolving loans and term loans is payable monthly in arrears. The Company may borrow, prepay and reborrow revolving loans, without premium or penalty. The term loans once repaid or prepaid may not be reborrowed. Term loans may be prepaid in full, or in part in increments of \$10,000,000. The Company is required to pay a prepayment fee of 3.0% for prepayments

of term loans made in the first year after closing, 2.0% for prepayments of term loans made in the second year after closing, 1.0% for prepayments of term loans made in the third year after closing and no prepayment fees thereafter. Upon the earlier of prepayment or maturity of the term loans, the Company is required to pay a fee of 5.0% of the aggregate original principal amount of the funded term loans, which fee increases to 6.75% if the Company exercises its option to extend the amortization date and maturity date. The Company is also obligated to pay other customary fees for a loan facility of this size and type.

Also in May 2022, the Company borrowed the first \$75,000,000 tranche of the term loan and used a portion of the proceeds to pay off and terminate the prior term loan agreement with Stifel Bank totaling \$49,181,000, which included a final interest payment of \$181,000. The Company recognized a loss on debt extinguishment of \$245,000 in connection with the early termination of its prior term loan agreement with Stifel Bank.

Obligations under the Loan Agreement are secured by substantially all of the Company's assets. The Loan Agreement requires the Company to maintain consolidated trailing twelvemonth revenues of at least 75% of the outstanding principal amount of the term loans, measured as of the last day of each fiscal quarter; or if the revenue target is not achieved, the Company must have maintained unrestricted cash and cash equivalents (net of outstanding revolving loans) subject to control agreements in favor of Oxford Finance equal to at least 50% of the outstanding principal amount of the term loans. Additionally, the Loan Agreement contains customary affirmative and negative covenants, including covenants limiting the Company's ability and the ability of the Company's subsidiaries to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on capital stock, make investments and acquisitions, and enter into transactions with affiliates, in each case subject to customary exceptions for a loan facility of this size and type.

The events of default under the Loan Agreement include, among others, payment defaults, material misrepresentations, breaches of covenants, cross defaults with certain other material indebtedness, bankruptcy and insolvency events, and judgment defaults. The occurrence of an event of default could result in the acceleration of the Company's obligations under the Loan Agreement, the termination of the lender's commitments, a 5% increase in the applicable rate of interest and the exercise by the lender of other rights and remedies provided for under the Loan Agreement.

As of December 31, 2022, the aggregate outstanding principal balance under the Loan Agreement was \$75,000,000 and the variable interest rate was 7.50%. As of December 31, 2022, the Company was in compliance with all applicable financial covenants.

Future maturities under the Oxford Finance term loan agreement as of December 31, 2022 are as follows (in thousands):

Year Ending December 31:	Amount
2023	\$ 5,703
2024	5,719
2025	5,703
2026	45,699
2027	34,517
	 97,341
Add: Accretion of closing fees	531
	97,872
Less: Amount representing interest	(22,341)
Less: Amount representing debt discount and debt issuance costs	(22,341) (935)
Present value of minimum payments	\$ 74,596

7. Commitments and Contingencies

Operating Lease and Rights-of-Use

The Company's operating lease obligation at its corporate headquarters in California consists of leased office, laboratory, and manufacturing space under a non-cancellable operating lease that expires in October 2024. The lease agreement includes a renewal provision allowing the Company to extend this lease for an additional period of five years.

In May 2021, the Company entered into a new, non-cancelable operating lease for additional office, laboratory and manufacturing space in Minnesota that expires in November 2029. The lease agreement includes a renewal provision allowing the Company to extend this lease for two additional five year terms. In connection with the lease, the Company recognized a right-of-use asset and lease liability of \$3,307,000. In June 2022, the Company leased the remaining right-

of-first refusal space at its Minnesota facility and recognized a right-of-use asset and lease liability of \$903,000 for the additional space.

Operating lease costs were \$1,559,000, \$1,234,000 and \$870,000 for the years ended December 31, 2022, 2021, and 2020, respectively. Cash paid (net of tenant improvement allowances received) for amounts included in the measurement of operating lease liabilities was \$102,000, \$(34,000) and \$769,000 for the years ended December 31, 2022, 2021 and 2020, respectively. As of December 31, 2022, the weighted average discount rate was approximately 6.57% and the weighted average remaining lease term was 5.68 years. As of December 31, 2021, the weighted average discount rate was approximately 6.50% and the weighted average remaining lease term was 5.86 years. Balance sheet information as of December 31, 2022 and 2021 consists of the following (in thousands):

	December 31,					
Operating Lease:		2022		2021		
Operating lease right-of-use asset in other non-current assets	\$	5,081	\$	5,219		
Operating lease liability in accrued liabilities	\$	1,844	\$	1,294		
Operating lease liability in other liabilities		5,998		5,747		
Total operating lease liabilities	\$	7,842	\$	7,041		

The following table summarizes the Company's operating lease maturities as of December 31, 2022 (in thousands):

Year Ending December 31:	Amount
2023	\$ 1,967
2024	1,764
2025	1,079
2026	1,173
2027	1,202
Thereafter	2,391
Total lease payments	 9,576
Less: imputed interest	(1,734)
Present value of lease liabilities	\$ 7,842

Purchase Obligations

Purchase obligations consist of agreements to purchase goods and services entered into in the ordinary course of business. As of December 31, 2022, the Company had non-cancellable purchase obligations to suppliers of \$13,572,000.

Indemnification

In the normal course of business, the Company enters into contracts and agreements with suppliers and other parties that contain a variety of representations and warranties and may provide for indemnification of the counterparty. The Company's exposure under these agreements is unknown because it involves claims that may be made against it in the future but have not yet been made. To date, the Company has not been subject to any claims or been required to defend any action related to its indemnification obligations.

The Company indemnifies each of its directors and officers for certain events or occurrences, subject to certain limits, while the director or officer is or was serving at the Company's request in such capacity, as permitted under Delaware law and in accordance with its certificate of incorporation and bylaws. The term of the indemnification period lasts as long as a director or officer may be subject to any proceeding arising out of acts or omissions of such director or officer in such capacity. The maximum amount of potential future indemnification is unlimited; however, the Company currently holds director and officer liability insurance. The Company believes that the fair value of these indemnification obligations is minimal. Accordingly, the Company has not recognized any liabilities relating to these obligations as of December 31, 2022.

Contingencies

The Company is not involved in any pending legal proceedings that it believes could have a material adverse effect on its financial condition, results of operations or cash flows. From time to time, the Company may pursue litigation to assert its legal rights and such litigation may be costly and divert the efforts and attention of its management and technical

personnel which could adversely affect its business. The Company accrues a liability for such matters when it is probable that future expenditures will be made, and such expenditures can be reasonably estimated. There were no contingent liabilities requiring accrual as of December 31, 2022 and 2021.

8. Stockholders' Equity

Preferred Stock

As of December 31, 2022, the Company's certificate of incorporation, as amended and restated, authorizes the Company to issue up to 5,000,000 shares of preferred stock with \$0.001 par value per share, of which no shares were issued and outstanding.

Common Stock

As of December 31, 2022, the Company's certificate of incorporation, as amended and restated, authorizes the Company to issue up to 100,000,000 shares of common stock with \$0.001 par value per share, of which 38,355,972 shares were issued and outstanding. The holders of common stock are also entitled to receive dividends whenever funds are legally available, when and if declared by the Board of Directors. As of December 31, 2022, no dividends have been declared to date. Each share of common stock is entitled to one vote.

As of December 31, 2022 and 2021, the Company had reserved common stock for future issuances as follows:

	December 31,		
	2022	2021	
Outstanding stock options and equity awards	5,169,682	3,780,939	
Reserved for grants of future stock options and equity awards	2,209,072	2,477,212	
Reserved for Performance Stock Units for overperformance	207,468	_	
Reserved for employee stock purchase plan	1,172,686	922,097	
	8,758,908	7,180,248	

Disgorgement Proceeds

During the year ended December 31, 2021, the Company received net proceeds of \$32,000 related to the disgorgement of short-swing profits under Section 16(b) of the Exchange Act. The amount was recorded as an increase to additional paid-in capital on the balance sheet.

9. Stock-Based Compensation Plans

In March 2019, the Company's Board of Directors [and stockholders] approved the 2019 Equity Incentive Plan, or 2019 Plan, effective immediately prior to the Company's IPO. The 2019 Plan replaced the prior 2007 Stock Option Plan, or 2007 Plan, and the NeuroCo 2015 Equity Incentive Plan, which the Company assumed in connection with its acquisition of NeuroCo in December 2018, with respect to future grants. The 2019 Plan provides for the grant of ISOs to employees and for the grant of NSOs, restricted stock, restricted stock, restricted stock, restricted stock, restricted stock units, stock appreciation rights, performance units and performance shares to employees, directors and consultants. A total of 2,317,000 shares of common stock were initially reserved for issuance pursuant to the 2019 Plan. In addition, the shares reserved for issuance under the 2019 Plan also include an under the 2007 Plan, plus any share awards granted under the 2007 Plan that expire or terminate without having been exercised in full or that are forfeited or repurchased. In addition, the number of shares available for issuance under the 2019 Plan also include an annual increase on the first day of each fiscal year, equal to the lesser of (i) 3,000,000 shares; (ii) 4.0% of the outstanding shares of common stock as of the last day of the immediately preceding fiscal year; or (iii) an amount as determined by the Board of Directors. As of December 31, 2022, the Company has reserved 6,417,317 shares of common stock for issuance under the 2019 Plan.

A summary of the shares available for issuance under the 2019 Plan is as follows:

	Number of Shares
Balances, December 31, 2019	1,554,690
Authorized	1,250,210
Granted/Awarded	(1,079,883)
Cancelled	65,670
Balances, December 31, 2020	1,790,687
Authorized	1,369,985
Granted/Awarded	(847,080)
Cancelled	163,620
Balances, December 31, 2021	2,477,212
Authorized	1,399,235
Allowance for Performance Stock Units for overperformance	(207,468)
Granted/Awarded	(1,600,996)
Cancelled	141,089
Balances, December 31, 2022	2,209,072

The exercise price of ISOs and NSOs shall not be less than 100% and 85%, respectively, of the estimated fair value of the shares on the date of grant as determined by the Board of Directors. The exercise price of ISOs and NSOs granted to a 10% stockholder shall not be less than 110% of the estimated fair value of the shares on the date of grant as determined by the Board of Directors. To date, options have a term of ten years and generally vest over four years from the date of grant.

Stock option activity under the 2019 Plan, the 2007 Plan, and the NeuroCo 2015 Equity Incentive Plan, or the Plans, is set forth below:

	Options Outstanding						
		Weighted Average Remaining					
	Number of Shares		Weighted Average Exercise Price	Contractual Term (in Years)		gregate Intrinsic ue (in thousands)	
Balances, December 31, 2019	4,310,790	\$	7.91	7.27	\$	140,234	
Options granted	1,010,843	\$	40.67				
Options exercised	(1,018,779)	\$	3.42				
Options cancelled	(65,026)	\$	23.32				
Balances, December 31, 2020	4,237,828	\$	16.56	7.38	\$	197,407	
Options granted	323,057	\$	53.94				
Options exercised	(643,507)	\$	7.49				
Options cancelled	(136,439)	\$	40.30				
Balances, December 31, 2021	3,780,939	\$	20.45	6.71	\$	91,900	
Options granted	587,015	\$	37.69				
Options exercised	(453,199)	\$	7.42				
Options cancelled	(74,897)	\$	41.16				
Balances, December 31, 2022	3,839,858	\$	24.22	6.41	\$	112,755	
Vested and exercisable at December 31, 2022	2,894,714	\$	18.82	5.76	\$	100,024	
Vested and expected to vest at December 31, 2022	3,839,858	\$	24.22	6.41	\$	112,755	

The aggregate intrinsic value of options exercised during the years ended December 31, 2022, 2021 and 2020 was \$17,575,000, \$29,355,000 and \$47,861,000, respectively. The aggregate intrinsic value was calculated as the difference between the exercise prices of the underlying options and the estimated fair value of the common stock on the date of exercise. The weighted-average grant date fair value of options granted during the years ended December 31, 2022, 2021 and 2020 was \$37.69, \$23.83 and \$18.22 per share, respectively. The total fair value of options vested during the years ended December 31, 2022, 2021 and 2020 was \$9,816,000, \$9,076,000 and \$5,138,000, respectively, based on the grant date fair value.

The following table summarizes information about stock options outstanding and vested as of December 31, 2022:

	Options Outstanding				Options Vested			
		Weighted Average Remaining		_				
		Contractual Term (in		Weighted Average		١	Weighted Average	
Exercise Price	Options Outstanding	Years)		Exercise Price	Number Exercisable		Exercise Price	
\$1.38 - \$3.16	583,253	3.76	\$	2.18	583,253	\$	2.18	
\$4.73 - \$7.10	503,468	5.16	\$	5.75	503,468	\$	5.75	
\$8.27 - \$12.41	475,911	5.07	\$	11.76	475,522	\$	11.76	
\$20.00 - \$30.00	581,673	6.26	\$	20.00	532,068	\$	20.00	
\$30.93 - \$46.55	1,142,735	8.17	\$	35.20	508,451	\$	34.43	
\$47.20 - \$70.80	552,818	8.02	\$	56.73	291,952	\$	56.74	
	3,839,858	6.41	\$	24.22	2,894,714	\$	18.82	

Restricted Stock Units and Performance Stock Units

In March 2020, the Company began granting restricted stock units, or RSUs, under the 2019 Plan. RSUs generally vest and are settled in shares of common stock over four years in annual equal increments. The total grant date fair value of awards granted during the year ended December 31, 2022 and 2021 was \$30,486,000 and \$28,110,000, respectively. The total fair value of awards vested during the year ended December 31, 2022 and 2021 was \$6,135,000 and \$1,893,000, respectively. No awards vested during the year ended December 31, 2020. The fair value of RSUs is based on the closing price of the Company's common stock on the date of grant.

In November 2022, the Company awarded an aggregate of 207,468 performance stock units, or PSUs, under the 2019 Plan to certain executive officers, which PSUs vest at the end of a three year service period, subject to the officer's continued service to the Company. The total number of shares of common stock to be issued upon vesting and settlement of the PSUs will be determined based on the total stockholder return, or TSR, of the Company's common stock price relative to a group of Benchmark Companies over a three year performance period and range from 0% to 200% of the target value of shares granted, depending on the Company's performance against the targeted Benchmark Companies. The total grant date fair value of awards granted during the year ended December 31, 2022 was \$16,000,000.

A summary of RSUs and PSUs activity for the years ended December 31, 2022, 2021 and 2020 is as follows:

	Number of RSUs/PSUs	ed Average Grant te Fair Value
Balances, December 31, 2019		\$ _
Awards granted	69,040	\$ 46.14
Awards vested		\$ _
Awards forfeited	(644)	\$ 44.62
Balances, December 31, 2020	68,396	\$ 46.16
Awards granted	524,023	\$ 53.64
Awards vested	(34,964)	\$ 49.95
Awards forfeited	(27,181)	\$ 51.99
Balances, December 31, 2021	530,274	\$ 53.01
Awards granted	1,013,981	\$ 45.84
Awards vested	(148,239)	\$ 52.14
Awards forfeited	(66,192)	\$ 44.38
Balances, December 31, 2022	1,329,824	\$ 48.07
Expected to vest at December 31, 2022	1,329,824	\$ 48.07

The shares expected to vest as of December 31, 2022 reflects PSUs awards performance and vesting at 100% of the target value of shares granted.

2019 Employee Stock Purchase Plan

In March 2019, the Company's Board of Directors [and stockholders] adopted the 2019 Employee Stock Purchase Plan, or the ESPP, under which eligible employees are permitted to purchase common stock at a discount through payroll deductions. A total of 434,000 shares of common stock were initially reserved for issuance and is increased on the first day of each fiscal year by an amount equal to the lesser of (i) 1,200,000 shares (ii) 1.0% of the outstanding shares of common stock as of the last day of the immediately preceding fiscal year; or (iii) an amount as determined by the Board of Directors. As of December 31, 2022, the Company has reserved 1,438,856 shares of common stock for issuance under the ESPP. The price of the common stock purchased will be the lower of 85% of the fair market value of the common stock at the beginning of an offering period or at the end of a purchase period. The ESPP was effective upon adoption by the Company's Board of Directors but was not in use until the completion of the Company's IPO in April 2019. The ESPP is intended to qualify as an "employee stock purchase plan" within the meaning of Section 423 of the Internal Revenue Code of 1986, as amended.

As of December 31, 2022, 266,170 shares of common stock have been issued to employees participating in the ESPP and 1,172,686 shares were available for future issuance under the ESPP.

Stock-Based Compensation

The Company estimated the fair value of stock options using the Black—Scholes option pricing model. The fair value of stock options is being amortized on a straight—line basis over the requisite service period of the awards. The fair value of stock options was estimated using the following assumptions for the years ended December 31, 2022, 2021 and 2020:

	Y	Year Ended December 31,		
	2022	2021	2020	
Expected term (in years)	5.25 - 6.25	5.25 - 6.25	5.00 - 6.25	
Expected volatility	48.2% - 51.4%	45.0% - 50.4%	43.0% - 50.3%	
Risk-free interest rate	1.60% - 3.84%	0.41% - 1.08%	0.32% - 1.41%	
Dividend yield	%	%	%	

The fair value of the underlying common stock is based on the closing price of the Company's common stock on The Nasdaq Global Market on the date of grant. The expected term of stock options represents the weighted-average period the stock options are expected to remain outstanding. The Company does not have sufficient historical exercise and post-vesting termination activity to provide accurate data for estimating the expected term of options and has opted to use the "simplified method," whereby the expected term equals the arithmetic average of the vesting term and the original contractual term of the option. The expected stock price volatility assumption was determined by supplementing its historical stock trading volatility with the historical volatilities for industry peers, as the Company does not have sufficient trading history for the Company's common stock. The Company will continue to analyze the historical stock price volatility and expected term assumption as more historical data for the Company's common stock becomes available. The risk-free interest rate assumption is based on the U.S. Treasury instruments whose term was consistent with the expected term of the Company's stock options. The expected dividend assumption is based on the Company's history and expectation of dividend payouts. The Company has elected to recognize forfeitures of share-based payment awards as they occur.

In November 2022, the Company awarded an aggregate of 207,468 PSUs to certain executive officers that vest at the end of a three year service period based on the TSR of the Company's common stock price relative to a group of Benchmark Companies measured over three performance periods. The Company estimated the fair value of the PSUs using the Monte Carlo simulation model, which is being amortized over the requisite service period of the awards. The fair value of the PSUs was estimated using the following assumptions for the year ended December 31, 2022: Benchmark companies volatility of 59.4%, Company volatility of 60.6%, risk-free interest rate of 4.09%-4.20%, correlation with index of 0.41, and dividend yield of 0%.

The fair value of the shares to be issued under the Company's ESPP was estimated using the Black-Scholes valuation model with the following assumptions for the years ended December 31, 2022, 2021 and 2020:

	Year Ended December 31,				
	2022	2021	2020		
Expected term (in years)	0.50	0.50	0.50		
Expected volatility	51.6% - 74.5%	46.9% - 51.6%	44.4% - 76.4%		
Risk-free interest rate	0.07% - 4.64%	0.03% - 0.10%	0.10% - 1.58%		
Dividend yield	—%	%	%		

The following table summarizes the total stock-based compensation expense included in the statements of operations and comprehensive loss for all periods presented (in thousands):

	Year Ended December 31,					
		2022		2021		2020
Cost of goods sold	\$	1,138	\$	635	\$	339
Research and development expenses		5,240		2,909		1,110
Selling, general and administrative expenses		18,645		11,068		5,777
	\$	25,023	\$	14,612	\$	7,226

As of December 31, 2022, there was total unrecognized compensation costs of \$16,784,000 related to stock options expected to be recognized over a period of approximately 2.33 years, a total of \$53,784,000 of unrecognized compensation costs related to unvested RSUs and PSUs expected to be recognized over a period of approximately 2.83 years and \$423,000 of unrecognized compensation costs related to the ESPP, which the Company will recognize over 0.38 years.

10. Income Taxes

The components of income before taxes are as follows (in thousands):

	Year Ended December 31,					
	 2022 2021			2020		
United States	\$ (55,010)	\$	(49,811)	\$	(47,365)	
International						
	\$ (55,010)	\$	(49,811)	\$	(47,365)	

A reconciliation of the statutory U.S. federal rate to the Company's effective tax rate is as follows (in thousands):

	Year Ended December 31,					
	2022		2021		2020	
Tax at federal statutory rate	\$ (11,552)	\$	(10,460)	\$	(9,947)	
State taxes, net of federal benefit	(2,206)		(1,852)		(1,958)	
Permanent differences	(2,883)		(5,224)		(8,489)	
Change in valuation allowance	18,237		17,918		22,164	
General business credits	(1,166)		(852)		(1,268)	
Other	(401)		490		(491)	
Provision for income taxes	\$ 29	\$	20	\$	11	

The Company's provision for income taxes amounts are not significant and are included within other income (expense) on the statements of operations and comprehensive loss.

Significant components of the Company's net deferred tax assets as of December 31, 2022 and 2021 consist of the following (in thousands):

	December 31,		
	2022	2021	
Deferred tax assets:			
Net operating loss carryforwards	\$ 82,768	\$ 77,616	
Research and development credits	8,898	7,732	
Capitalized start-up costs/Intangibles	1	4	
Section 174 R&D capitalization	7,816	_	
Accruals and reserves	2,820	2,301	
Stock-based compensation	8,209	4,392	
Operating lease liability	1,973	1,751	
Interest limitation	2,013	1,314	
Total deferred tax assets	114,498	95,110	
Less: Valuation allowance	(111,444)	(93,207)	
Deferred tax liabilities:			
Operating lease asset	(1,278)	(1,297)	
Property and equipment	(1,776)	(606)	
Total deferred tax liabilities	(3,054)	(1,903)	
Net deferred tax assets	<u> </u>	\$	

In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Management believes it is more likely than not that the deferred tax assets will not be realized; accordingly, a valuation allowance has been established on U.S. net deferred tax assets. The valuation allowance increased \$18,237,000 during the year ended December 31, 2022 and increased by \$17,918,000 during the year ended December 31, 2021.

As of December 31, 2022, the Company had net operating loss carryforwards of approximately \$320,140,000 and \$271,494,000 for federal and state income tax purposes, respectively. The federal and state net operating loss carryforwards begin to expire in 2027 and 2028, respectively. Federal NOL carryforwards generated in tax years beginning in 2018 are not subject to expiration. Federal NOLs that arose on or after January 1, 2018 can be carried forward indefinitely against future income, but can only be used to offset a maximum of 80% of the Company's federal taxable income in any year.

The federal and state net operating loss carryforwards may be subject to significant limitations under Section 382 and Section 383 of the Internal Revenue Code and similar provisions under state law. Federal tax legislation enacted in December 2017, commonly known as the Tax Cuts and Jobs Act, contains provisions that limit the federal net operating loss carryforwards that may be used in any given year in the event of special occurrences, including significant ownership changes. A Section 382 "ownership change" generally occurs if one or more stockholders or groups of stockholders, who own at least 5% of the Company's stock, increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three-year period. The Company may have previously experienced, and may in the future experience, one or more Section 382 "ownership changes," including in connection with the Company's initial public offering. If so, the Company may lose some or all of the tax benefits of its NOLs and tax credits. The extent of such limitations for prior years, if any, has not yet been formally determined.

Under the Tax Cuts and Jobs Act, research and development expenditures are no longer fully deductible and are required to be capitalized and amortized under Section 174 of the Internal Revenue Code in tax years beginning on or after January 1, 2022. The capitalized research expenses must be amortized over five years for research performed in the U.S. and 15 years for research performed outside the U.S. The mandatory capitalization requirement increased the Company's deferred tax assets, which were fully offset by a valuation allowance.

At December 31, 2022, the Company had \$8,395,000 and \$5,022,000 of federal and state research and development credit carryforwards, respectively, on a tax return basis. If not utilized, the federal credits will expire beginning in 2027. The California research and development credits can be carried forward indefinitely.

As of December 31, 2022, the Company had \$3,788,000 of unrecognized tax benefits. The Company does not have any tax positions for which it is reasonably possible that the total amount of gross unrecognized tax benefits would increase or decrease within twelve months of the year ended December 31, 2022. If recognized, \$0 would affect the effective tax rate.

The Company recognizes interest and penalties related to uncertain tax positions in income tax expense. There was no such expense recorded during the years ended December 31, 2022, 2021 and 2020.

A reconciliation of the unrecognized tax benefits from January 1, 2020 to December 31, 2022 is as follows (in thousands)

	December 31,					
	 2022		2021		2020	
Balance at the beginning of year	\$ 3,314	\$	2,019	\$	1,436	
Increases related to current years' tax positions	474		704		342	
Increases related to prior years' tax positions	_		591		241	
Balance at end of year	\$ 3,788	\$	3,314	\$	2,019	

The Company currently has no federal or state tax examinations in progress nor has it had any federal or state tax examinations since its inception. As a result of the Company's net operating loss carryforwards, all of its tax years are subject to federal and state tax examination.

11. 401(k) Plan

The Company has a qualified retirement plan under section 401(k) of the Internal Revenue Code, or the IRC, under which participants may contribute up to 90% of their eligible compensation, subject to maximum deferral limits specified by the IRC. The Company may make a discretionary matching contribution to the 401(k) plan and may make a discretionary employer contribution to each eligible employee each year. Beginning in January 2020, the Company started matching employees' contributions to the 401(k) plan at 50% of the first 5% of compensation deferred to the 401(k) plan and at 50% of the first 6% of compensation deferred effective January 1, 2022. The Company's matching contributions were \$1,872,000, \$1,313,000 and \$959,000 for the years ended December 31, 2022, 2021 and 2020, respectively.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure

None

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer (our principal executive officer and principal financial officer, respectively), evaluated the effectiveness of our disclosure controls and procedures as of December 31, 2022. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, refers to controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that such information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to a company's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

In designing and evaluating our disclosure controls and procedures, management recognizes that disclosure controls and procedures, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions; over time, controls may become inadequate because of changes in conditions, or the degree of compliance with policies or procedures may deteriorate. Because of the inherent limitations in a control system, misstatements due to error or fraud may occur and not be detected.

Based on the evaluation of our disclosure controls and procedures, our Chief Executive Officer and Chief Financial Officer concluded that, as of December 31, 2022, our disclosure controls and procedures were effective at the reasonable assurance level.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2022 based on the framework in *Internal Control-Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission, or COSO. Based on that evaluation, management has concluded that our internal control over financial reporting was effective as of December 31, 2022.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2022 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which is included in Part II, Item 8 under the caption "Report of Independent Registered Public Accounting Firm" of this Annual Report on Form 10-K.

Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the three months ended December 31, 2022 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Inherent Limitations on Effectiveness of Controls

Internal control over financial reporting has inherent limitations. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting can also be circumvented by collusion or improper management override of the controls. Projections of any evaluation of controls effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or deterioration in the degree of compliance with policies or procedures.

Item 9B. Other Information

None.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information required by this item is incorporated by reference from our definitive Proxy Statement to be filed with the SEC in connection with our 2023 Annual Meeting of Stockholders within 120 days after the end of the fiscal year ended December 31, 2022.

Item 11. Executive Compensation

The information required by this item is incorporated by reference from our definitive Proxy Statement to be filed with the SEC in connection with our 2023 Annual Meeting of Stockholders within 120 days after the end of the fiscal year ended December 31, 2022.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this item is incorporated by reference from our definitive Proxy Statement to be filed with the SEC in connection with our 2023 Annual Meeting of Stockholders within 120 days after the end of the fiscal year ended December 31, 2022.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this item is incorporated by reference from our definitive Proxy Statement to be filed with the SEC in connection with our 2023 Annual Meeting of Stockholders within 120 days after the end of the fiscal year ended December 31, 2022.

Item 14. Principal Accounting Fees and Services

The information required by this item is incorporated by reference from our definitive Proxy Statement to be filed with the SEC in connection with our 2023 Annual Meeting of Stockholders within 120 days after the end of the fiscal year ended December 31, 2022.

PART IV

Item 15. Exhibits and Financial Statement Schedule

(a) Financial Statements.

The financial statements included in "Index to Financial Statements" in Part II, Item 8 are filed as part of this Annual Report on Form 10-K.

(b) Financial Statement Schedule.

All other schedules have been omitted because the information required to be set forth therein is not applicable or is shown in the financial statements or notes thereto. The table below presents Schedule II, Valuation and Qualifying Accounts, detailing the activity of the allowance for credit losses for the years ended December 31, 2022, 2021 and 2020 (in thousands):

	Balance at Beginning of						Balance at	
Description	Yea	ar	Charge	d to expenses	,	Nrite offs		End of Year
Allowance for credit losses:	· · · · · · · · · · · · · · · · · · ·							
Year ended December 31, 2022	\$	6	\$	(3)	\$	_	\$	3
Year ended December 31, 2021	\$	13	\$	6	\$	13	\$	6
Year ended December 31, 2020	\$	45	\$	(32)	\$	_	\$	13

(c) Exhibits.

See the Exhibit Index immediately preceding the signature page hereto for a list of exhibits filed as part of this Annual Report on Form 10-K, which Exhibit Index is incorporated herein by reference.

EXHIBIT INDEX

Incorporated by Reference

		Incorporated by Reference					
Exhibit Number	Fulliti Provide	F	Fil- N-	F. Libia	Filing Date	Filed/Furnished Herewith	
3.1	Exhibit Description Amended and Restated Certificate of Incorporation of the registrant	Form 8-K	File No. 001-38847	Exhibit 3.1	4/8/2019	nerewith	
3.2	Certificate of Amendment of Amended and Restated Certificate of Incorporation	8-K	001-38847	3.1	6/22/2021		
3.3	Amended and Restated Bylaws of the registrant	8-K	001-38847	3.1	4/8/2019		
4.1		8-1		4.1	8/6/2019		
4.1	Specimen Common Stock Certificate of the registrant Amended and Restated Stockholders Agreement by and among the registrant and certain stockholders, dated July	S-1	333-233044 333-233044	4.1	8/6/2019		
4.2	Ameniaed and Resided Stockholders Agreement by and among the registrant and certain stockholders, dated July 7, 2017	5-1	333-233044	4.3	0/0/2019		
4.3	Description of the registrant's securities registered pursuant to Section 12 of the Securities Exchange Act of 1934					*	
10.1	Form of Indemnification Agreement for directors and executive officers	S-1	333-233044	10.1	8/6/2019		
10.2+	2007 Stock Plan, as amended, and related form agreement	S-1	333-233044	10.2	8/6/2019		
10.3+	2019 Employee Stock Purchase Plan and related form agreements	S-1	333-233044	10.3	8/6/2019		
10.4+	Executive Incentive Compensation Plan	S-1	333-233044	10.4	8/6/2019		
10.5+	2019 Equity Incentive Plan and related form agreements					*	
10.6#	Supply Agreement by and between the registrant and Cordis Corporation, dated October 21, 2011, as amended	S-1	333-233044	10.6	8/6/2019		
	by the Amendment dated March 12, 2012, the Second Amendment to Supply Agreement dated July 12, 2012, the				5. 5. 5. 5. 5.		
	Third Amendment to Supply Agreement dated April 19, 2013 and the Fourth Amendment to Supply Agreement dated April 9, 2018						
10.7#	License Agreement by and between the registrant and Cordis Corporation, dated December 17, 2010	S-1	333-233044	10.7	8/6/2019		
10.8	Quality Assurance Agreement by and among the registrant and Lake Region Medical and affiliates, dated May 4, 2015	S-1	333-233044	10.8	8/6/2019		
10.9#	Amended and Restated Manufacturing and Supply Agreement by and between the registrant and Galt Medical Corporation, dated January 10, 2018	S-1	333-233044	10.9	8/6/2019		
10.11	Lease Agreement by and between the registrant and Hanover Properties Ltd., dated November 30, 2017	S-1	333-233044	10.11	8/6/2019		
10.12	Director Offer Letter for Donald Zurbay dated as of February 6, 2018	S-1	333-233044	10.12	8/6/2019		
10.13+	Confirmatory Employment Letter between the registrant and Erica Rogers, dated as of March 21, 2019	S-1	333-233044	10.13	8/6/2019		
10.14+	Confirmatory Employment Letter between the registrant and Lucas Buchanan, dated as of March 21, 2019	S-1	333-233044	10.14	8/6/2019		
10.15+	Confirmatory Employment Letter between the registrant and Richard Ruedy, dated as of March 21, 2019	S-1	333-233044	10.15	8/6/2019		
10.16+	Confirmatory Employment Letter between the registrant and Andrew Davis, dated as of March 21, 2019	S-1	333-233044	10.16	8/6/2019		
10.17+†	Confirmatory Employment Letter between the registrant and Kevin Klemz, dated as of June 29, 2022					*	
10.18+	Change in Control and Severance Agreement between the registrant and Erica Rogers, dated as of March 21,	S-1	333-233044	10.17	8/6/2019		
10.19+	Change in Control and Severance Agreement between the registrant and Lucas Buchanan, dated as of March 21, 2019	S-1	333-233044	10.18	8/6/2019		
10.20+	Change in Control and Severance Agreement between the registrant and Richard Ruedy, dated as of March 21, 2019	S-1	333-233044	10.19	8/6/2019		
10.21+	Change in Control and Severance Agreement between the registrant and Andrew Davis, dated as of March 21, 2019	S-1	333-233044	10.2	8/6/2019		
10.22+	Change in Control and Severance Agreement between the registrant and Kevin Klemz, dated as of June 29, 2022					*	
10.23†	Loan and Security Agreement, dated as of October 29, 2020, by and between Silk Road Medical, Inc. and Stifel Bank	8-K/A	333-230045	10.1	11/4/2020		
10.24†	First Amendment to Loan and Security Agreement, dated January 15, 2021, by and between the registrant and Stifel Bank	10-Q	001-38847	10.22	5/10/2021		
10.25	Lease Agreement by and between the registrant and ARHC UHPTHMN01 LLC, dated May 12, 2021	10-Q	001-38847	10.23	8/6/2021		
10.26†	Second Amendment to Loan and Security Agreement, dated April 21, 2022, by and between the registrant and Stifel Bank	10-Q	001-38847	10.13	5/10/2022		
10.27†	IP License Agreement, dated May 12, 2016, by and between the registrant and Route 92 Medical, Inc.	10-Q	001-38847	10.14	5/10/2022		
10.28†	IP Assignment and License Agreement, dated May 12, 2016, by and between the registrant and Route 92 Medical, Inc.	10-Q	001-38847	10.15	5/10/2022		
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10.29†	Loan and Security Agreement, dated May 27, 2022, by and between the registrant and Oxford Finance, LLC	8-K	001-38847	10.1	5/31/2022	I
		0-1	001-30047	10.1	5/31/2022	
10.30	First Amendment to Loan and Security Agreement, dated June 13, 2022, by and between the registrant and Oxford Finance, LLC	10-Q	001-38847	10.17	8/9/2022	
10.31	First Amendment to Lease Agreement, dated June 30, 2022, by and between the Registrant and Parkers Lake Medtech LLC	10-Q	001-38847	10.18	8/9/2022	
10.32	Second Amendment to Lease Agreement, dated September 15, 2022, by and between the Registrant and Parkers Lake Medtech LLC	10-Q	001-38847	10.1	11/9/2022	
23.1	Consent of Independent Registered Public Accounting Firm					*
24.1	Power of Attorney, reference is made to the Signatures page					*
31.1	Certification of Principal Executive Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					*
31.2	Certification of Principal Financial Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					*
32.1	Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002					**
101.INS	XBRL Instance Document					*
101.SCH	XBRL Taxonomy Extension Schema Document					*
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document					*
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document					*
101.LAB	XBRL Taxonomy Extension Label Linkbase Document					*
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document					*
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)					*

^{*} Filed herewith.

^{*} Furnished herewith. This certification is not deemed filed with the SEC and is not to be incorporated by reference into any filing of Silk Road Medical, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Annual Report on Form 10-K, irrespective of any general incorporation language contained in such filing.

⁺ Indicates a management contract or compensatory plan or arrangement.

Portions of this exhibit have been omitted pursuant to Rule 601(b)(10) of Regulation S-K.

Portions of this exhibit (indicated by asterisks) have been omitted pursuant to a grant of confidential treatment. The omitted information has been filed separately with the SEC.

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Item 16. Form 10-K Summary

Not applicable.

SIGNATURES

Pursuant to the requirements of Section 13 and 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

SILK ROAD MEDICAL, INC.

February 28, 2023

February 28, 2023

/s/ Erica J. Rogers
Erica J. Rogers
President, Chief Executive Officer and Director

/s/ Lucas W. Buchanan

Lucas W. Buchanan Chief Financial Officer and Chief Operating Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Erica J. Rogers and Lucas W. Buchanan, and each of them acting individually, as his or her true and lawful attorneys-in-fact and agents, with full power of each to act alone, with full powers of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, with full power of each to act alone, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully for all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or his or their substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this Annual Report on Form 10-K has been signed by the following persons in the capacities and on the dates indicated:

Signature	Title	Date		
/s/ Erica J. Rogers Erica J. Rogers	President, Chief Executive Officer and Director (Principal Executive Officer)	February 28, 2023		
/s/ Lucas W. Buchanan Lucas W. Buchanan	Chief Financial Officer and Chief Operating Officer (Principal Financial Officer and Principal Accounting Officer)	February 28, 2023		
/s/ Rick D. Anderson Rick D. Anderson	Director	February 28, 2023		
Is/ Kevin J. Ballinger Kevin J. Ballinger	Director	February 28, 2023		
Is/ Tanisha V. Carino Tanisha V. Carino	Director	February 28, 2023		
/s/ Tony M. Chou Tony M. Chou, M.D.	Director	February 28, 2023		
/s/ Jack W. Lasersohn Jack W. Lasersohn	Chair of the Board of Directors	February 28, 2023		
/s/ Elizabeth H. Weatherman Elizabeth H. Weatherman	Director	February 28, 2023		
/s/ Donald J. Zurbay Donald J. Zurbay	Director	February 28, 2023		

DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

General

The following is a description of the material terms and provisions relating to our securities registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended, or the Exchange Act. The following description is a summary that is not complete and is subject to and qualified in its entirety by reference to our amended and restated certificate of incorporation and our amended and restated bylaws, and to provisions of the Delaware General Corporation Law. Copies of our amended and restated certificate of incorporation and our amended and restated bylaws, each of which may be amended from time to time, are included as exhibits to the Annual Report on Form 10-K of which this Exhibit is a part.

Our authorized capital stock consists of 105,000,000 shares of capital stock, \$0.001 par value per share, of which:

- 100,000,000 shares are designated as common stock; and
- 5,000,000 shares are designated as preferred stock

Common Stock

Only our common stock is registered under Section 12 of the Exchange Act, and trades on The Nasdaq Global Select Market under the symbol "SILK."

Votina Rights

Each holder of our common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. Our stockholders do not have cumulative voting rights in the election of directors. Accordingly, holders of a majority of the voting shares are able to elect all of the directors.

Dividends

Subject to preferences that may be applicable to any then outstanding convertible preferred stock, holders of our common stock are entitled to receive dividends, if any, as may be declared from time to time by our board of directors out of legally available funds.

Liquidation

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then outstanding shares of convertible preferred stock.

Rights and Preferences

Holders of our common stock have no preemptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to our common stock.

Fully Paid and Nonassessable

All of our outstanding shares of common stock are fully paid and nonassessable.

Preferred Stock

Our board of directors has the authority, without further action by our stockholders, to issue up to 5,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, rights and terms of redemption, liquidation preferences, sinking fund provisions and the number of shares constituting, or the designation of, such series, any or all of which may be greater than the rights of common stock. The issuance of our preferred stock could adversely

affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon our liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change in control of our company or other corporate action. No shares of preferred stock are outstanding.

Anti-Takeover Effects or Provisions of our Amended and Restated Certificate of Incorporation, our Amended and Restated Bylaws and Delaware Law

Some provisions of Delaware law and our amended and restated certificate of incorporation and our amended and restated bylaws that are in effect contain provisions that could make the following transactions more difficult: acquisition of us by means of a tender offer; acquisition of us by means of a proxy contest or otherwise; or removal of our incumbent officers and directors. It is possible that these provisions could make it more difficult to accomplish or could deter transactions that stock holders may otherwise consider to be in their best interest or in our best interests, including transactions that might result in a premium over the market price for our

These provisions, summarized below, are expected to discourage coercive takeover practices and inadequate takeover bids. These provisions are also designed to encourage persons seeking to acquire control of us to first negotiate with our board of directors. We believe that the benefits of increased protection of our potential ability to negotiate with the proponent of a non-friendly or unsolicited proposal to acquire or restructure us outweigh the disadvantages of discouraging these proposals because negotiation of these proposals could result in an improvement of their terms.

Delaware Anti-Takeover Statute

We are subject to Section 203 of the General Corporation Law of the State of Delaware, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- Before such date, our board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an
- Upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or On or after such date, the business combination is approved by our board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines business combination to include the following:

- Any merger or consolidation involving the corporation and the interested stockholder;

- Any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
 Subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
 Any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- The receipt by the interested stockholder of the benefit of any loss, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines interested stockholder as an entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation or any entity or person affiliated with or controlling or controlled by such entity or person.

Undesignated Preferred Stock

The ability to authorize undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to acquire us. These and other provisions may have the effect of deterring hostile takeovers or delaying changes in control or management of our company.

Special Stockholder Meetings

Our amended and restated bylaws provide that a special meeting of stockholders may be called only by our board of directors, the chairperson of our board of directors, or our Chief Executive Officer or President. This provision might delay the ability of our stockholders to force consideration of a proposal or for stockholders controlling a majority of our common stock to take any action, including the removal of directors.

Requirements for Advance Notification of Stockholder Nominations and Proposals

Our amended and restated bylaws establish advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors, other than nominations made by or at the direction of our board of directors or a committee of our board of directors. Our amended and restated bylaws also specify certain requirements regarding the form and content of a stockholder's notice.

Advance Notice of Stockholder Business

If a stockholder is submitting a stockholder proposal related to the business of the company, such stockholder must: (i) be a stockholder of record at the time notice is given, (ii) submit the notice in a timely manner, and (iii) such business must be of a proper matter for stockholder action in accordance with our bylaws and applicable law. To be in proper written form, a stockholder's notice related to the business of the company must contain the following items: (i) a brief description of the business intended to be brought before the annual meeting, the text of the proposed business (including the text of any resolutions proposed for consideration) and the reasons for conducting such business at the annual meeting, (ii) the name and address of the stockholder proposing such business, (iii) the class and number of shares that are held of record or are beneficially held by the stockholder, (iv) whether and the extent to which any hedging activities have been entered into by or on behalf of such stockholder with respect to our securities, (v) any material interest of the stockholder in such business, (vi) a statement whether such stockholder will deliver a proxy statement or form of proxy to holders required under applicable law to carry the proposal.

Advance Notice of Director Nominations

If a stockholder is submitting a nomination in connection with an annual meeting, such stockholder must: (i) be a stockholder of record at the time notice if given, and (ii) submit the notice in a timely manner. To be in proper written form, a stockholder's notice related to director nominations must contain the following items with respect to each nominee: (i) the name, age, business address and residence address of the nominee, (ii) the principal occupation or employment of the nominee, (iii) the class and number of shares of the company that are held of record or are beneficially owned by the nominee and any derivative positions held or beneficially held by the nominee, (iv) whether and the extent to which any hedging activities have been entered into by or on behalf of the nominee with respect to our securities, (v) a description of all arrangements or understandings between or among the stockholder, any nominee or any other person or persons pursuant to which the nominations are to be made by the stockholder and (vi) a written statement executed by the nominee acknowledging and representing that the nominee intends to serve a full term on our board of directors if elected. With respect to the stockholder, the notice must contain the following items: (i) the name and address of the stockholder proposing such business, (ii) the class and number of shares that are held of record or are beneficially held by the stockholder, (iii) whether and the extent to which any hedging activities have been entered into by or on behalf of such stockholder with respect to our securities, (iv) any material interest of the stockholder in such business, and (v) a statement whether such stockholder will deliver a proxy statement or form of proxy reasonably believed by such stockholder to be necessary to elect such nominee.

Elimination of Stockholder Action by Written Consent

Our amended and restated certificate of incorporation and our amended and restated bylaws eliminate the right of stockholders to act by written consent without a meeting. As a result, a holder controlling a majority of our common stock would not be able to amend our amended and restated bylaws or remove directors without holding a meeting of our stockholders called in accordance with our amended and restated bylaws.

Classified Board; Election and Removal of Directors

Our amended and restated certificate of incorporation and amended and restated bylaws authorizes only our board of directors to fill vacant directorships, including newly created seats. In addition, the number of directors constituting our board of directors are permitted to be set only by a resolution adopted by our board of directors. These provisions prevent a stockholder from increasing the size of our board of directors and then gaining control of our board of directors by filling the resulting vacancies with its own nominees. This makes it more difficult to change the composition of our board of directors but promotes continuity of management.

Our board of directors is divided into three classes. The directors in each class will serve for a three-year term, one class being elected each year by our stockholders, with staggered three-year terms. Only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. Because our stockholders do not have cumulative voting rights, our stockholders holding a majority of the shares of common stock outstanding will be able to elect all of our directors up for election. In addition, our amended and restated certificate of incorporation provides that directors may only be removed for cause. This system of electing and removing directors may tend to discourage a third party from making a tender offer or otherwise attempting to obtain control of us, because it generally makes it more difficult for stockholders to replace a majority of the directors.

Notwithstanding the foregoing, beginning at the 2022 annual meeting of our stockholders, the successors of our directors whose terms expired at that meeting were elected for a term expiring at the 2023 annual meeting of the stockholders; at the 2023 annual meeting of our stockholders, the successors of the directors whose terms expire at that meeting shall be elected for a term expiring at the 2024 annual meeting of our stockholders; and at each of our annual meetings of stockholders thereafter, the directors shall be elected for terms expiring at the next succeeding annual meeting of our stockholders, with each director to hold office until his or her successor shall have been duly elected and qualified and, commencing with the 2024 annual meeting of our stockholders, the classification of the Company's board of directors shall cease.

Exclusive Forum

Our amended and restated certificate of incorporation and bylaws provides that, unless we consent in writing to the selection of an alternative forum, the sole and exclusive forum, to the fullest extent permitted by law, for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers or other employees to us or our stockholders, (3) any action asserting a claim against us or any of our directors or officers arising pursuant to any provision of the Delaware General Corporation Law, our amended and restated certificate of incorporation or bylaws, or (4) any other action asserting a claim that is governed by the internal affairs doctrine shall be the Court of Chancery of the State of Delaware or federal court located within the State of Delaware if the Court of Chancery does not have jurisdiction, in all cases subject to the court's having jurisdiction over indispensable parties named as defendants. A complaint asserting a cause of action under the Securities Act may be brought in state or federal court. With respect to the Securities Exchange Act of 1934, or Exchange Act, only claims brought derivatively under the Exchange Act would be subject to the forum selection clause described above. The enforceability of similar choice of forum provisions in other companies' certificates of incorporation and bylaws has been challenged in legal proceedings, and it is possible that, in connection with any action, a court could find the choice of forum provisions contained in our amended and restated certificate of incorporation and bylaws to be inapplicable or unenforceable in such action. Although we believe these provisions benefit us by providing increased consistency in the application of Delaware law for the specified types of actions and proceedings, the provisions may have the effect of discouraging lawsuits against us or our directors and officers. Any person or entity purchasing or otherwise acquiring any interes

Amendment of Charter Provisions

The amendment of any of the above provisions, except for the provision making it possible for our board of directors to issue preferred stock, would require approval by holders of at least 66 2/3% of the voting power of our then outstanding voting stock.

The provisions of the Delaware General Corporation Law, our amended and restated certificate of incorporation and our amended and restated bylaws may have the effect of discouraging others from attempting hostile takeovers and, as a consequence, they may also inhibit temporary fluctuations in the market price of our common stock that often result from actual or rumored hostile takeover attempts. These provisions may also have the effect of preventing changes in our management. It is possible that these provisions could make it more difficult to accomplish transactions that stockholders may otherwise deem to be in their best interests.

Exchange Listing

Our common stock is guoted on The Nasdaq Global Select Market under the symbol "SILK."

Transfer Agent

The transfer agent for our common stock is American Stock Transfer & Trust Company, LLC. The transfer agent's address is 6201 15th Avenue, Brooklyn, NY 11219.



CERTAIN IDENTIFIED INFORMATION HAS BEEN OMITTED FROM THIS DOCUMENT BECAUSE IT IS NOT MATERIAL AND (I) WOULD BE COMPETITIVELY HARMFUL TO THE REGISTRANT IF PUBLICLY DISCLOSED OR (II) IS INFORMATION THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL. SUCH INFORMATION HAS BEEN MARKED WITH "[***]" TO INDICATE WHERE OMISSIONS HAVE BEEN MADE.

June 29, 2022

Kevin Klemz [xxx] Delivered via Adobe Sign

Dear Kevin,

On behalf of Silk Road Medical, Inc. (the "Company"), I am pleased to offer you employment in the position of Executive Vice President, Chief Legal Officer, and Secretary reporting directly to Erica Rogers, President & CEO. This letter agreement sets forth the terms and conditions of your employment with the Company from and after the date of your employment. You should note that the Company may modify job titles, salaries, and benefits from time to time as it deems necessary.

- 1. **Start Date:** Your position will be as a full-time, salaried/exempt employee commencing on August 15, 2022, or such other date as you and the Company mutually agree.
- 2. **Base Salary:** The Company will pay you an annual base salary of \$430,000 to be paid semi-monthly in accordance with the Company's standard payroll policies and subject to applicable withholdings. Your annual base salary will be subject to review and adjustment from time to time by the Company's Board of Directors (the "Board") or its Compensation Committee (the "Committee"), as applicable, in its sole discretion.
- 3. **Annual Bonus:** You will have the opportunity to earn a target annual cash bonus equal to 60% of your annual base salary earned during the fiscal year, based on achieving performance objectives established by the Board or Committee, as applicable, in its sole discretion and payable upon achievement of those objectives as determined by the Board or the Committee. Unless determined otherwise by the Board or Committee, as applicable, any such bonus will be subject to your continued employment through and until the date of payment. Your annual bonus opportunity and the applicable terms and conditions may be adjusted from time to time by the Board or the Committee, as applicable, in its sole discretion. In the first fiscal year of your employment with the Company, your annual bonus opportunity will be prorated based on the length of time you have served as an employee of the Company during such fiscal year.

- 4. **Retention Bonus:** The Company will pay you a \$100,000 retention bonus to be paid after 30 days of employment with the Company. You must be employed with the Company on the payment date and be achieving all set orientation and performance goals. This \$100,000 will have all applicable taxes withheld and will be paid as a lump sum payment in the pay period following the completion of your 30 days of employment. Please also note that this bonus will not be earned until the first anniversary of your employment with the Company. This means that if prior to your one-year employment anniversary you voluntarily terminate your employment with Silk Road Medical, you will have earned only a pro-rata portion (1/12th per month) of the bonus and will be obligated to repay the unearned after-tax amount within ten (10) business days following your termination.
- 5. **Equity/Vesting:** On your employment date, the Company will grant you equity in Silk Road Medical with an expected value of approximately \$2,000,000. This expected value will be converted to both options to purchase common stock and Restricted Stock Units (RSUs) on the date of grant with 50% of the value in options and 50% in RSUs. For the options, the exercise price per share will be equal to the fair market value of the Company's Common Stock on the date of grant. Vesting for these options will be as follows: 25% of the shares subject to the option shall vest on the one-year anniversary of your employment commencement date, with the balance to vest monthly over the following three years until all shares subject to the option are fully vested on the fourth anniversary of your employment commencement date. Vesting for these RSUs will be as follows: 25% of the shares shall vest on the one-year anniversary of your employment commencement date, with the balance to vest annually over the following three years until all shares subject to the award are fully vested on the fourth anniversary of your employment commencement date.
- 6. **Benefits:** You will be eligible to participate in the benefit plans and programs established by the Company for its employees from time to time, subject to their applicable terms and conditions, including without limitation any eligibility requirements. The Company reserves the right to modify, amend, suspend, or terminate the benefit plans and programs it offers to its employees at any time.
- 7. **Work Location and Business Class Travel:** This position will be based in Silk Road Medical's office in Plymouth, Minnesota. When it is necessary for you to travel for business, you will be eligible for business class airfare.
- 8. **Severance:** You will be eligible to enter into a Change in Control and Severance Agreement (the "Severance Agreement") applicable to you based on your position within the Company. The Severance Agreement will specify the severance payments and benefits you may become entitled to receive in connection with certain qualifying terminations of your employment with the Company. These protections will supersede all other severance payments and benefits to which you otherwise may be entitled, or may become entitled in the future, under any plan, program, or policy that the Company may have in effect from time to time.
- 9. **At-Will Employment:** All employment with the Company is at-will as provided by California law. If you choose to accept employment with the Company, your employment will be voluntarily entered into and will be for no specified time period. As a result, you will be free

to resign at any time, for any reason or for no reason, as you deem appropriate. The Company will have a similar right and may conclude its employment relationship with you at any time, with or without cause, and with or without notice. We request that in the event of your resignation, you give the Company at least two weeks' notice.

- 10. Eligibility for Employment; Confidentiality Agreement: For purposes of federal immigration law, you will be required to provide documentary evidence of your identity and eligibility for employment in the United States. Such documentation must be provided to us within three (3) business days of your date of hire, or our employment relationship with you may be terminated. Your employment is also conditioned upon entering into, and complying with, the Company's standard At-Will Employment, Confidential Information, Invention Assignment and Arbitration Agreement (the "Confidentiality Agreement"), with no excluded inventions except as may be acceptable to the Company. The Confidentiality Agreement requires, among other provisions, the assignment of patent rights to any invention made during your employment at the Company, and non-disclosure of Company proprietary information. In the event of any dispute or claim relating to or arising out of our employment relationship, you and the Company agree that (i) any and all disputes between you and the Company shall be fully and finally resolved by binding arbitration, (ii) you are waiving any and all rights to a jury trial but all court remedies will be available in arbitration, (iii) all disputes shall be resolved by a neutral arbitrator who shall issue a written opinion, (iv) the arbitration shall provide for adequate discovery, and (v) the Company shall pay all the arbitration fees, except an amount equal to the filing fees you would have paid had you filed a complaint in a court of law. Please note that we must receive your signed Confidentiality Agreement before your Start Date.
- 11. **Prior Employment; No Conflict:** By signing this letter agreement, you represent and warrant that you have disclosed to the Company any and all agreements relating to your prior employment that may affect your eligibility to be employed by the Company or limit the manner in which you may be employed. It is the Company's understanding that any such agreements will not prevent you from performing the duties of your position and you represent that such is the case and that you are under no contractual commitments inconsistent with your obligations to the Company. Moreover, you agree that, during the term of your employment with the Company, you will not engage in any other employment, occupation, consulting or other business activity related to the business in which the Company is now involved or becomes involved during the term of your employment, nor will you engage in any other activities that conflict with your obligations to the Company. Similarly, you agree not to bring any third-party confidential information to the Company, including that of your former employer, and that in performing your duties for the Company you will not in any way utilize any such information.
- 12. **Other Conditions:** As a condition to your employment with the Company, you agree to observe and comply with all of the rules, regulations, policies and procedures established by the Company from time to time and all applicable laws, rules and regulations imposed by any governmental regulatory authority from time to time. You may be required to sign an acknowledgement that you have read and that you understand the Company's rules, regulations, policies, and procedures at the time of employment commencement and/or at any time during your employment with the Company.

This letter agreement, along with the Confidentiality Agreement and its attachments and the Severance Agreement, set forth the terms of your employment with the Company and supersede any prior representations or agreements including, but not limited to, any representations made during your recruitment, interviews, or pre-employment negotiations, whether written or oral. This letter agreement, including, but not limited to, its at-will employment provision, may not be modified or amended except by a written agreement signed by the Chief Executive Officer of the Company and you.

This offer of employment will expire if it is not accepted, signed and returned by July 1, 2022, at 5:00pm PT.

We look forward to your favorable reply and to working with you at Silk Road Medical.

Sincerely,

/s/ Alison Highlander

Alison Highlander, Vice President-Human Resources — Silk Road Medical On behalf of Erica Rogers, President & CEO — Silk Road Medical

Agreed to and accepted:

By: /s/ Kevin Klemz

Printed Name: Kevin Klemz

Date: Jun 29, 2022

Enclosures:

- · At-Will Employment, Confidential Information, Invention Assignment and Arbitration Agreement (the "Confidentiality Agreement")
- · Change in Control and Severance Agreement

SILK ROAD MEDICAL, INC.

CHANGE IN CONTROL AND SEVERANCE AGREEMENT

This Change in Control and Severance Agreement (as amended, the "**Agreement**") is made between Silk Road Medical, Inc. (the "**Company**") and Kevin Klemz (the "**Executive**"), effective as of August 15, 2022, or the Commencement Date of Employment, whichever is later (the "**Effective Date**").

This Agreement provides certain protections to the Executive in connection with a change in control of the Company or in connection with the involuntary termination of the Executive's employment under the circumstances described in this Agreement.

The Company and the Executive agree as follows:

- Term of Agreement. This on the Effective Date (the This Agreement will have the "**Initial Term**"). On the three (3 initial term of (3) years e Effective an third (3rd) commencing anniversary Date, this Agreement will renew automatically for additional, one (1) year terms (each, an "Additional Term") unless either party provides the other party with written notice of nonrenewal at least one (1) year prior to the date of automatic renewal. Notwithstanding the foregoing, if a Change in Control occurs

 (a) when there are fewer than twelve (12) months remaining during the Initial Term or (b) during an Additional Term, the term of this Agreement will extend automatically through the date that is twelve (12) months following the date of the Change in Control. If the Executive becomes entitled to the benefits under Section 3 of this Agreement, then the Agreement will not terminate until all of the obligations of the parties hereto with respect to this Agreement have been satisfied.
- 2. <u>At-Will Employment</u>. The Company and the Executive acknowledge that the Executive's employment is and will continue to be at-will, as defined under applicable law.

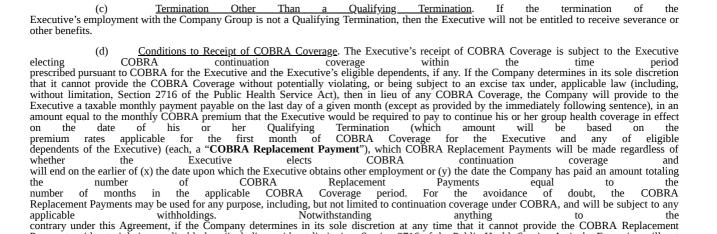
3. Severance Benefits.

- (a) <u>Qualifying Non-CIC Termination</u>. On a Qualifying Non-CIC Termination (as defined below), the Executive will be eligible to receive the following payments and benefits from the Company:
- (i) <u>Salary Severance</u>. A single, lump sum payment equal to twelve (12) months of the Executive's Salary (as defined below), less applicable withholdings.
- (ii) <u>Equity Vesting Acceleration</u>. If Executive is terminated without Cause or if Executive terminates his employment for Good Reason within one (1) year following a CEO Change that occurs prior to August 15, 2024, vesting acceleration (and exercisability, as applicable) as to 100% of the new hire equity grant (as described in Section 5 of Executive's offer letter dated June 2022) will occur. A CEO Change is defined as the replacement of Erica Rogers as the Chief Executive Officer of the Company with an individual that is not an employee or member of the board of directors of the Company as of the effective date of this Agreement. Any such termination described in this Section 3(a)(ii) shall be considered a Qualifying Termination.

- Subject **COBRA** Coverage. Section 3(d), Company will pay premiums for coverage under COBRA (as defined below) for the dependents, if any, at the rates then in effect, subject to any subseq applicable to the Company's active employees (the "COBRA Coverage"), until the earliest of Executive and the Executive's eligible any subsequent changes in rates that generally (A) a period of twelve (12) months from the date of the Executive's termination of employment, (B) the date upon which the Executive (and the Executive's eligible dependents, as applicable) becomes covered under similar plans, or (C) the date upon which the Executive ceases to be eligible for coverage under COBRA.
- (b) <u>Qualifying CIC Termination</u>. On a Qualifying CIC Termination, the Executive will be eligible to receive the following payments and benefits from the Company:
- (i) <u>Salary Severance</u>. A single, lump sum payment, less applicable withholdings, equal to the sum of twelve (12) months of the Executive's Salary (as defined below).
- (ii) <u>Bonus Severance</u>. A single, lump sum payment, less applicable withholdings, equal to 100% of the Executive's target annual bonus as in effect for the fiscal year in which the Qualifying CIC Termination occurs.
- (iii) <u>COBRA Coverage</u>. Subject to Section 3(d), the Company will pay the premiums for coverage under COBRA (as defined below) for the Executive and the Executive's eligible dependents, if any, at the rates then in effect, subject to any subsequent changes in rates that are generally applicable to the Company's active employees (the "COBRA Coverage"), until the earliest of (A) a period of twelve (12) months from the date of the Executive's termination of employment, (B) the date upon which the Executive (and the Executive's eligible dependents, as applicable) becomes covered under similar plans, or (C) the date upon

which the Executive ceases to be eligible for coverage under CÔBRA.

(iv) Equity Vesting Acceleration. Vesting acceleration (and exercisability, as applicable) as to 100% of the then-unvested shares subject to each of the Executive's then-outstanding Company equity awards. In the case of an equity award with performance-based vesting, unless otherwise specified in the applicable equity award agreement governing such award, all performance goals and other vesting criteria will be deemed achieved at target. For the avoidance of doubt, in the event of the Executive's Qualifying Pre-CIC Termination (as defined below), any unvested portion of the Executive's then-outstanding equity awards will remain outstanding until the earlier of (x) sixty (60) days following the Qualifying Termination or (y) the occurrence of a Change in Control, solely so that any benefits due on a Qualifying Pre-CIC Termination can be provided if a Change in Control occurs within sixty (60) days following the Qualifying Termination (provided that in no event will the Executive's stock options or similar equity awards remain outstanding beyond the equity award's maximum term to expiration). If no Change in Control occurs within sixty (60) days following a Qualifying Termination, any unvested portion of the Executive's equity awards automatically and permanently will be forfeited on the sixtieth (60th) day following the date of the Qualifying Termination without having vested.



(e) <u>Non-Duplication of Payment or Benefits</u>. For purposes of clarity, in the event of a Qualifying Pre-CIC Termination, any severance payments and benefits to be provided to the Executive under Section 3(b) will be reduced by any amounts that already were provided to the Executive under Section 3(a). Notwithstanding any provision of this Agreement to the contrary, if the Executive is entitled to any cash severance, continued health coverage benefits, or vesting acceleration of any equity awards (other than under this Agreement) by operation of applicable law or under a plan, policy, contract, or arrangement sponsored by or to which any member of the Company Group is a party ("**Other Benefits**"), then the corresponding severance payments and benefits under this Agreement will be reduced by the amount of Other Benefits paid or provided to the Executive.

Payments without violating applicable law (including, without limitation, Section 2716 of the Public Health Service Act), the Executive will not receive the COBRA Replacement Payments or any further COBRA Coverage.

- (f) <u>Death of the Executive</u>. In the event of the Executive's death before all payments or benefits the Executive is entitled to receive under this Agreement have been provided, the unpaid amounts will be provided to the Executive's designated beneficiary, if living, or otherwise to the Executive's personal representative in a single lump sum as soon as possible following the Executive's death.
- (g) <u>Transfer Between Members of the Company Group</u>. For purposes of this Agreement, if the Executive is involuntarily transferred from one member of the Company Group to

another, the transfer will not be a termination without Cause but may give the Executive the ability to terminate his employment for Good Reason.

- (h) <u>Exclusive Remedy.</u> In the event of a termination of the Executive's employment with the Company Group, the provisions of this Agreement are intended to be and are exclusive and in lieu of any other rights or remedies to which the Executive may otherwise be entitled, whether at law, tort or contract, or in equity. The Executive will be entitled to no benefits, compensation or other payments or rights upon termination of employment other than those benefits expressly set forth in this Agreement.
- 4. <u>Accrued Compensation</u>. On any termination of the Executive's employment with the Company Group, the Executive will be entitled to receive all accrued but unpaid vacation, expense reimbursements, wages, and other benefits due to the Executive under any Company-provided plans, policies, and arrangements.

Conditions to Receipt of Severance.

- (a) <u>Separation Agreement and Release of Claims</u>. The Executive's receipt of any severance payments or benefits upon the Executive's Qualifying Termination under Section 3 is subject to the Executive signing and not revoking the Company's then-standard separation agreement and release of claims (which may include an agreement not to disparage any member of the Company Group, non-solicit provisions, an agreement to assist in any litigation matters, and other standard terms and conditions) (the "Release" and that requirement, the "Release Requirement"), which must become effective and irrevocable no later than the 60th day following the Executive's Qualifying Termination (the "Release Deadline"). If the Release does not become effective and irrevocable by the Release Deadline, the Executive will forfeit any right to severance payments or benefits under Section 3.
- (b) <u>Payment Timing</u>. Any lump sum Salary or bonus payments under Sections <u>3(a)(i)</u>, <u>3(b)(i)</u>, and <u>3(b)</u> (<u>ii)</u> will be provided on the first regularly scheduled payroll date of the Company following the date the Release becomes effective and irrevocable (the "Severance Start Date"), subject to any delay required by Section <u>5(d)</u> below. Any taxable installments of any COBRA- related severance benefits that otherwise would have been made to the Executive on or before the Severance Start Date will be paid on the Severance Start Date, and any remaining installments thereafter will be provided as specified in the Agreement. Any restricted stock units, performance shares, performance units, and/or similar full value awards that accelerate vesting under Section <u>3(b)(iii)</u> will be settled (x) on a date no later than ten (10) days following the date the Release becomes effective and irrevocable, or (y) if later, in the event of a Qualifying Pre-CIC Termination, on a date no later than the Change in Control.
- (c) <u>Return of Company Property.</u> The Executive's receipt of any severance payments or benefits upon the Executive's Qualifying Termination under Section 3 is subject to the Executive returning all documents and other property provided to the Executive by any member of the Company Group (with the exception of a copy of the Company employee handbook and personnel documents specifically relating to the Executive), developed or obtained by the Executive in connection with his or her employment with the Company Group, or otherwise belonging to the Company Group.

- 409A. The Company intends that all payments benefits provided Section and under this Agreement or otherwise are exempt from, or comply with, the requirements of Section 409A of the Code and any guidance promulgated under Section 409A of the Code (collectively, "Section 409A") so that none of the payments or benefits will be subject to the additional tax imposed under Section 409A, and any ambiguities in this Agreement will be interpreted in accordance with this intent. No payment or benefits to be paid to the Executive, if any, under this Agreement or otherwise, when considered together with any other severance payments or separation benefits that are considered deferred compensation under Section 409A (together, the "Deferred Payments" be paid or otherwise provided until the Executive has a "separation from service" within the meaning of Section 409A. If, at the time of the Executive's termination of employment, the Executive is a "specified employee" within the meaning of Section 409A, then the payment of the Deferred Payments will be delayed to the extent necessary to avoid the imposition of the additional tax imposed under Section 409A, which generally means that the Executive will receive payment on the first payroll date that occurs on or after the date that is 6 months and 1 day following the Executive's termination of employment. The Company reserves the right to amend this Agreement as it considers necessary or advisable, in its sole discretion and without the consent of the Executive or any other individual, to comply with any provision required to avoid the imposition of the additional tax imposed under Section 409A or to otherwise avoid income recognition under Section 409A prior to the actual payment of any benefits or imposition of any additional tax. Each payment, installment, and benefit payable under this Agreement is intended to constitute a separate payment for purposes of U.S. Treasury Regulation Section 1.409A- 2(b)(2). In no event will any member of the Company Group reimburse, indemnify, or hold harmless the Executive for any taxes, penalties and interest that may be imposed, or other costs that may be incurred, as a result of Section 409A.
- (e) <u>Resignation of Officer and Director Positions.</u> The Executive's receipt of any severance payments or benefits upon the Executive's Qualifying Termination under Section 3 is subject to the Executive resigning from all officer and director positions with all members of the Company Group and the Executive executing any documents the Company may require in connection with the same.

Limitation on Payments.

(a) Reduction of Severance Benefits. If any payment or benefit that the Executive would receive from any Company Group member any other party whether in connection provisions in this Agreement or otherwise (the "Payment") would (i) constitute a "parachute payment" within the meaning of Section 280G of the (ii) but for this sentence, be subject Section 4999 of the Code (the "Excise Tax"), then the Payment The "Best Results Amount" will be either (x) the full amount and to the will be equal to the Results Amount. of the Payment or (y) lesser amount that would result in no portion of the Payment being subject to the Excise Tax, whichever of those amounts, taking into account the applicable federal, state and local employment taxes, income taxes and the Excise Tax, results in the Executive's receipt, on an aftertax basis, of the greater amount. If a reduction in payments or benefits constituting parachute payments is necessary so that the Payment equals the Best Results Amount, reduction will occur in the following order: payments in reverse chronological order (that is, the cash payment owed on occurrence of the event triggering the Excise Tax will be the first cash payment to be reduced);
(B) cancellation of equity awards that were granted "contingent on a change in ownership or control" (A) reduction on the latest date

within the meaning of Section 280G of the Code in the reverse order of date of grant of the awards (that is, the most recently granted equity awards will be cancelled first); (C) reduction of the accelerated vesting of equity awards in the reverse order of date of grant of the awards (that is, the vesting of the most recently granted equity awards will be cancelled first); and (D) reduction of employee benefits in reverse chronological order (that is, the benefit owed on the latest date following the occurrence of the event triggering the Excise Tax will be the first benefit to be reduced). In no event will the Executive have any discretion with respect to the ordering of Payment reductions. The Executive will be solely responsible for the payment of all personal tax liability that is incurred as a result of the payments and benefits received under this Agreement, and the Executive will not be reimbursed, indemnified, or held harmless by any member of the Company Group for any of those payments of personal tax liability.

- (b) <u>Determination of Excise Tax Liability.</u> Unless the Company and the Executive otherwise agree in writing, the Company will select a professional services firm (the "**Firm**") to make all determinations required under this Section 6, which determinations will be conclusive and binding upon the Executive and the Company for all purposes. For purposes of making the calculations required by this Section 6, the Firm may make reasonable assumptions and approximations concerning applicable taxes and may rely on reasonable, good faith interpretations concerning the application of Sections 280G and 4999 of the Code. The Company and the Executive will furnish to the Firm such information and documents as the Firm reasonably may request in order to make determinations under this Section 6. The Company will bear the costs and make all payments for the Firm's services in connection with any calculations contemplated by this Section 6. The Company will have no liability to the Executive for the determinations of the Firm.
 - 7. <u>Definitions</u>. The following terms referred to in this Agreement will have the following meanings:
 - (a) "Board" means the Company's Board of Directors.
- (b) "Cause" means: (i) the Executive's conviction of. plea of guilty or felony or a crime involving moral turpitude; (ii) the Executive's admission conviction to, of, or plea of guilty or nolo contendere to, an intentional act of fraud, embezzlement or theft in connection with your duties or in the course of employment with the Company Group; (iii) the Executive's intentional wrongful damage to property of the Company Group; (iv) intentional unauthorized or wrongful use or disclosure of secret processes or of proprietary or confidential information of the Company Group (or any other party to whom the Executive owes an obligation of nonuse or nondisclosure as a result of the Executive's employment relationship with the Company), including but not limited to trade secrets and customer lists; (iv) the Executive's violation of any agreement not to compete with the Company Group or to solicit either its customers or employees on behalf of competitors while remaining employed with the Company Group; (v) the Executive's intentional violation of any policy or policies regarding ethical conduct; (vi) an act of dishonesty made by the Executive in connection with the Executive's responsibilities as an employee which materially harms the Company Group, or (vii) the Executive's intentional or continued failure to perform the Executive's duties with the Company Group, as determined in good faith by the Company agreement of such failure such notice of such failure such notice and such policy and the company Group in provided with notice of such failure such notice specifying in rescondable detail the toole which must be accomplished as a such failure such notice and the company Group. provided with notice of such failure, such notice specifying in reasonable detail the tasks which must be accomplished and a timeline for the accomplishment to avoid termination for Cause, and an opportunity to cure within thirty (30) days of receipt of such notice.

- (c) "Change in Control" means the occurrence of any of the following events:
- A change in the ownership of the Company which occurs on the date that any one person, or more than one person ("Person"), stock held acting acquires ownership of group 50% together with by such Person, the Company that, the constitutes more than of voting power of the stock of the Company; provided, however, that for purposes of this subsection, (A) the acquisition of additional stock by any one Person, who is considered to own more than 50% of the total voting power of the stock of the Company will not be considered a Change in Control, and (B) if the stockholders of the Company immediately before such change in ownership continue to retain immediately after the change proportions substantially ownership. in the same their ownership as shares of the Company's voting stock immediately prior to the change in ownership, the direct or indirect beneficial ownership of 50% or more of power of the Company, such total the stock of the Company the voting or of entity of will not be event considered Control under a Change subsection (i). For this purpose, indirect beneficial ownership will include, without limitation, an interest resulting from ownership of the voting securities of one or more corporations or other business entities which own the Company, as the case may be, either directly or through one or more subsidiary corporations or other business entities; or
- (ii) A change in the effective control of the Company which occurs on the date that a majority of members of the Board is replaced during any 12-month period by members of the Board whose appointment or election is not endorsed by a majority of the members of the Board prior to the date of the appointment or election. For purposes of this subsection (ii), if any Person is considered to be in effective control of the Company, the acquisition of additional control of the Company by the same Person will not be considered a Change in Control; or
- (iii) A change in the ownership of a substantial portion of the Company's assets which occurs on the date that any Person acquires (or has acquired during the 12-month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value equal to or more than 50% of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions; provided, however, that for purposes of this subsection (iii), the following will not constitute a change in the ownership of a substantial portion of the Company's assets: (A) a transfer to an entity that is controlled by the Company's stockholders immediately after the transfer, or (B) a transfer of assets by the Company to: (1) a stockholder of the Company (immediately before the asset transfer) in exchange for or with respect to the Company's stock, (2) an entity, 50% or more of the total value or voting power of which is owned, directly or indirectly, by the Company, or (4) an entity, at least 50% of the total value or voting power of which is owned, directly or indirectly, by a Person described in this subsection (iii)(B)(3). For purposes of this subsection (iii), gross fair market value means the value of the assets of the Company, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets

For purposes of this definition, persons will be considered to be acting as a group if they are owners of a corporation that enters into a merger, consolidation, purchase or acquisition of stock, or similar business transaction with the Company.

Notwithstanding the foregoing, a transaction will not be deemed a Change in Control unless the transaction qualifies as a change in control event within the meaning of Section 409A.

Further and for the avoidance of doubt, a transaction will not constitute a Change in Control if: (i) its sole purpose is to change the state of the Company's incorporation, or (ii) its sole purpose is to create a holding company that will be owned in substantially the same proportions by the persons who held the Company's securities immediately before such transaction.

- (d) "Change in Control Period" means the period beginning three (3) months prior to a Change in Control and ending twelve (12) months following a Change in Control.
 - (e) "COBRA" means the Consolidated Omnibus Budget Reconciliation Act of 1985,

as amended.

- (f) "Code" means the Internal Revenue Code of 1986, as amended.
- (g) "Company Group" means the Company and its subsidiaries.
- (h) "Confidentiality Agreement" means the At-Will Employment, Confidential

Information, Invention Assignment, Nonsolicitation, and Arbitration Agreement.

(i) "Disability" means a total and permanent disability as defined in Section 22(e)(3) of the Code.

"Good Reason" means the termination of the Executive's employment with the (j) Company Group by the Executive in accordance with the next sentence after the occurrence of one or more of the following events without the Executive's express written consent: (i) a material reduction of the Executive's duties, authorities, or responsibilities relative to the Executive's duties, authorities, or responsibilities in effect immediately prior to the reduction; provided, however, that authorities, or nstitute "Good following with substantially employment a Change in Control the same duties, the Group's business responsibilities Company and operations will responsibilities with respect to the Company Group's business and operations will not constitute "Good Reason" (for example, "Good Reason" shall not exist if the Executive is employed by the Company Group or a successor with substantially the same duties, authorities, or responsibilities with respect to the Company Group's business that the Executive had immediately prior to the Change in Control and Executive reports to the Chief Executive Officer or board of directors of the highest tier successor to the Company Group following the Change in Control, and, for the avoidance of doubt, "Good Reason" shall exist if Executive is not the Chief Legal highest tier by a Company Group or its equivalent in the entity following a CEO Change); (ii) a salary by more than 10%; substantially all other sim CEO Change); Control reduction member Change or rate of annual base salary by more than 10%; provided, however, that, a reduction of annual base salary that also applies to substantially all other similarly situated employees of the Company Group members will not constitute "Good Reason"; (iii) a material change in the geographic location of the Executive's primary work facility or location by more than 35 miles from the Executive's then present location; provided, that a relocation to a location that is within 35 miles from the Executive's thenpresent primary residence will not be considered a material change in geographic location, or (iv) failure of a successor corporation to assume the under Agreement contemplated hv Section obligations this as the termination of the Executive's employment with a Company Group member to be for Good Reason,

the Executive must not terminate employment without first providing written notice to the Company of the acts or omissions constituting the grounds for "Good Reason" within 60 days of the initial existence of the grounds for "Good Reason" and a cure period of 30 days following the date of written notice (the "Cure Period"), the grounds must not have been cured during that time, and the Executive must terminate the Executive's employment within 30 days following the Cure Period.

- (k) "Qualifying Pre-CIC Termination" means a Qualifying CIC Termination that occurs prior to the date of the Change in Control.
- (l) "Qualifying Termination" means (i) a termination of the Executive's employment by a Company Group member without Cause (excluding by reason of Executive's death or Disability) outside of the Change in Control Period (a "Qualifying Non-CIC Termination") or (ii) a termination of the Executive's employment (A) by a Company Group member without Cause (excluding by reason of Executive's death or Disability) or (B) by the Executive for Good Reason, in either (A) or (B) during the Change in Control Period (a "Qualifying CIC Termination").
- (m) "Salary" means the Executive's annual base salary as in effect immediately prior to the Executive's Qualifying Termination (or if the termination is due to a resignation for Good Reason based on a material reduction in base salary, then the Executive's annual base salary in effect immediately prior to the reduction) or, if the Executive's Qualifying Termination is a Qualifying CIC Termination and the amount is greater, at the level in effect immediately prior to the Change in Control.
- 8. <u>Successors.</u> This Agreement will be binding upon and inure to the benefit of (a) the heirs, executors, and legal representatives of the Executive upon the Executive's death, and (b) any successor of the Company. Any such successor of the Company will be deemed substituted for the Company under the terms of this Agreement for all purposes. For this purpose, "successor" means any person, firm, corporation, or other business entity which at any time, whether by purchase, merger, or otherwise, directly or indirectly acquires all or substantially all of the assets or business of the Company. None of the rights of the Executive to receive any form of compensation payable pursuant to this Agreement may be assigned or transferred except by will or the laws of descent and distribution. Any other attempted assignment, transfer, conveyance, or other disposition of the Executive's right to compensation or other benefits will be null and void.

Notice.

(a) <u>General</u>. All notices and other communications required or permitted under this Agreement shall be in writing and will be effectively given (i) upon actual delivery to the party to be notified, (ii) upon transmission by email, (iii) 24 hours after confirmed facsimile transmission, (iv) 1 business day after deposit with a recognized overnight courier, or (v) 3 business days after deposit with the U.S. Postal Service by first class certified or registered mail, return receipt requested, postage prepaid, addressed (A) if to the Executive, at the address the Executive shall have most recently furnished to the Company in writing, (B) if to the Company, at the following address:

Silk Road Medical, Inc.

1213 Innsbruck Drive Sunnyvale, CA 94089

- (b) Notice of Termination. Any termination by a Company Group member for Cause will be communicated by a notice of termination to the Executive, and any termination by the Executive for Good Reason will be communicated by a notice of termination to the Company, in each case given in accordance with Section 9(a) of this Agreement. The notice will indicate the specific termination provision in this Agreement relied upon, will set forth in reasonable detail the facts and circumstances claimed to provide a basis for termination under the provision so indicated, and will specify the termination date (which will be not more than thirty (30) days after the later of (i) the giving of the notice or (ii) the end of any applicable cure period).
- 10. <u>Resignation</u>. The termination of the Executive's employment for any reason will also constitute, without any further required action by the Executive, the Executive's voluntary resignation from all officer and/or director positions held at any member of the Company Group, and at the Board's request, the Executive will execute any documents reasonably necessary to reflect the resignations.

11. Miscellaneous Provisions.

- (a) <u>No Duty to Mitigate</u>. The Executive will not be required to mitigate the amount of any payment contemplated by this Agreement, nor will any payment be reduced by any earnings that the Executive may receive from any other source except as specified in Section 3(e).
- (b) <u>Waiver; Amendment.</u> No provision of this Agreement will be modified, waived or discharged unless the modification, waiver or discharge is agreed to in writing and signed by an authorized officer of the Company (other than the Executive) and by the Executive. No waiver by either party of any breach of, or of compliance with, any condition or provision of this Agreement by the other party will be considered a waiver of any other condition or provision or of the same condition or provision at another time.
- (c) <u>Headings</u>. All captions and section headings used in this Agreement are for convenient reference only and do not form a part of this Agreement.
- (d) <u>Entire Agreement</u>. This Agreement constitutes the entire agreement of the parties and supersedes in their entirety all prior representations, understandings, undertakings or agreements (whether oral or written and whether expressed or implied) of the parties with respect to the subject matter of this Agreement, including, for the avoidance of doubt, any other employment letter or agreement, severance policy or program, or equity award agreement.
- (e) <u>Choice of Law.</u> This Agreement will be governed by the laws of the State of California without regard to California's conflicts of law rules that may result in the application of the laws of any jurisdiction other than California. To the extent that any lawsuit is permitted under this Agreement, Employee hereby expressly consents to the personal and exclusive jurisdiction and venue of the state and federal courts located in California for any lawsuit filed against the Executive by the Company.

- (f) <u>Arbitration</u>. Any and all controversies, claims, or disputes with anyone under this Agreement (including the Company and any employee, officer, director, stockholder or benefit plan of the Company in their capacity as such or otherwise) arising out of, relating to, or resulting from the Executive's employment with the Company Group, shall be subject to arbitration in accordance with the provisions of the Confidentiality Agreement.
- (g) <u>Severability</u>. The invalidity or unenforceability of any provision or provisions of this Agreement will not affect the validity or enforceability of any other provision of this Agreement, which will remain in full force and effect.
- (h) <u>Withholding</u>. All payments and benefits under this Agreement will be paid less applicable withholding taxes. The Company is authorized to withhold from any payments or benefits all federal, state, local, and/or foreign taxes required to be withheld from the payments or benefits and make any other required payroll deductions. No member of the Company Group will pay the Executive's taxes arising from or relating to any payments or benefits under this Agreement.
- (i) <u>Counterparts</u>. This Agreement may be executed in counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument.

[Signature page follows.]

By its signature below, each of the parties signifies its acceptance of the terms of this Agreement, in the case of the Company by its duly authorized officer.

COMPANY SILK ROAD MEDICAL, INC.

/s/ Alison Highlander
By: Alison Highlander, VP Human Resources
On behalf of: Erica Rogers, President & Chief Executive
Officer
Date: June 29, 2022

EXECUTIVE

/s/ Kevin Klemz Kevin Klemz Date: Jun 29, 2022

SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN

- 1. <u>Purposes of the Plan</u>. The purposes of this Plan are:
 - · to attract and retain the best available personnel for positions of substantial responsibility,
 - to provide additional incentive to Employees, Directors and Consultants, and
 - to promote the success of the Company's business.

The Plan permits the grant of Incentive Stock Options, Nonstatutory Stock Options, Restricted Stock, Restricted Stock Units, Stock Appreciation Rights, Performance Units and Performance Shares.

- 2. <u>Definitions</u>. As used herein, the following definitions will apply:
- (a) "<u>Administrator</u>" means the Board or any of its Committees as will be administering the Plan, in accordance with Section 4 of the Plan.
- (b) "Applicable Laws" means the legal and regulatory requirements relating to the administration of equity-based awards and the related issuance of Shares thereunder, including but not limited to U.S. federal and state corporate laws, U.S. federal and state securities laws, the Code, any stock exchange or quotation system on which the Common Stock is listed or quoted and the applicable laws of any non-U.S. country or jurisdiction where Awards are, or will be, granted under the Plan.
- (c) "Award" means, individually or collectively, a grant under the Plan of Options, Stock Appreciation Rights, Restricted Stock, Restricted Stock Units, Performance Units or Performance Shares.
- (d) "Award Agreement" means the written or electronic agreement setting forth the terms and provisions applicable to each Award granted under the Plan. The Award Agreement is subject to the terms and conditions of the Plan.
 - (e) "Board" means the Board of Directors of the Company.
 - (f) "Change in Control" means the occurrence of any of the following events:
- (i) A change in the ownership of the Company which occurs on the date that any one person, or more than one person acting as a group ("Person"), acquires ownership of the stock of the Company that, together with the stock held by such Person, constitutes more than fifty percent (50%) of the total voting power of the stock of the Company; provided, however, that for purposes of this subsection, (A) the acquisition of additional stock by any one Person, who is

considered to own more than fifty percent (50%) of the total voting power of the stock of the Company will not be considered a Change in Control, and (B) if the stockholders of the Company immediately before such change in ownership continue to retain immediately after the change in ownership, in substantially the same proportions as their ownership of shares of the Company's voting stock immediately prior to the change in ownership, the direct or indirect beneficial ownership of fifty percent (50%) or more of the total voting power of the stock of the Company or of the ultimate parent entity of the Company, such event will not be considered a Change in Control under this subsection (i). For this purpose, indirect beneficial ownership will include, without limitation, an interest resulting from ownership of the voting securities of one or more corporations or other business entities which own the Company, as the case may be, either directly or through one or more subsidiary corporations or other business entities; or

(ii) A change in the effective control of the Company which occurs on the date that a majority of members of the Board is replaced during any twelve (12)-month period by Directors whose appointment or election is not endorsed by a majority of the members of the Board prior to the date of the appointment or election. For purposes of this subsection (ii), if any Person is considered to be in effective control of the Company, the acquisition of additional control of the Company by the same Person will not be considered a Change in Control; or

change in the ownership of substantial а portion of the Company's assets which occurs on the date that any Person acquires (or has acquired during the twelve (12)-month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value equal to or more than fifty percent (50%) of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions; provided, however, that for purposes of this subsection (iii), the following will not constitute a change in the ownership of a substantial portion of the Company's assets: (A) a transfer to an entity that is controlled by the Company's stockholders immediately after the transfer, or (B) a transfer of assets by the Company to: (1) a stockholder of the Company (immediately before the asset transfer) in exchange for or with respect to the Company's stock, (2) an entity, fifty percent (50%) or more of the total value or voting power of which is owned, directly or indirectly, by the Company, (3) a Person, that owns, directly or indirectly, fifty percent (50%) or more of the total value or voting power of all the outstanding stock of the Company, or (4) an entity, at least fifty percent (50%) of the total value or voting power of which is owned, directly or indirectly, by a Person described in this subsection (iii)(B)(3). For purposes of this subsection (iii), gross fair market value means the value of the assets of the Company, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.

For purposes of this definition, persons will be considered to be acting as a group if they are owners of a corporation that enters into a merger, consolidation, purchase or acquisition of stock, or similar business transaction with the Company.

Notwithstanding the foregoing, a transaction will not be deemed a Change in Control unless the transaction qualifies as a change in control event within the meaning of Section 409A.

Further and for the avoidance of doubt, a transaction will not constitute a Change in Control if: (i) its sole purpose is to change the state of the Company's incorporation, or (ii) its sole purpose is to create a holding company that will be owned in substantially the same

proportions by the persons who held the Company's securities immediately before such transaction.

- (g) "Code" means the Internal Revenue Code of 1986, as amended. Reference to a specific section of the Code or regulation thereunder will include such section or regulation, any valid regulation promulgated under such section, and any comparable provision of any future legislation or regulation amending, supplementing or superseding such section or regulation.
- (h) "<u>Committee</u>" means a committee of Directors or of other individuals satisfying Applicable Laws appointed by the Board, or a duly authorized committee of the Board, in accordance with Section 4 hereof.
 - (i) "Common Stock" means the Common Stock of the Company.
 - (j) "Company" means Silk Road Medical, Inc., a Delaware corporation, or any successor thereto.
- (k) "Consultant" means any natural person, including an advisor, engaged by the Company or a Parent or Subsidiary to render bona fide services to such entity, provided the services
- (i) are not in connection with the offer or sale of securities in a capital-raising transaction, and (ii) do not directly promote or maintain a market for the Company's securities, in each case, within the meaning of Form S-8 promulgated under the Securities Act, and provided, further, that a Consultant will include only those persons to whom the issuance of Shares may be registered under Form S-8 promulgated under the Securities Act.
 - (l) "Director" means a member of the Board.
- (m) "<u>Disability</u>" means total and permanent disability as defined in Section 22(e)(3) of the Code, provided that in the case of Awards other than Incentive Stock Options, the Administrator in its discretion may determine whether a permanent and total disability exists in accordance with uniform and non-discriminatory standards adopted by the Administrator from time to time.
- (n) "Employee" means any person, including Officers and Directors, employed by the Company or any Parent or Subsidiary of the Company. Neither service as a Director nor payment of a director's fee by the Company will be sufficient to constitute "employment" by the Company.
 - (o) "Exchange Act" means the Securities Exchange Act of 1934, as amended.
- "Exchange Program" means a program under which (i) outstanding Awards are surrendered or cancelled in exchange for (p) awards of the same type (which may have higher or lower exercise prices and different terms), awards of a different type, and/or cash, (ii) the opportunity to transfer any outstanding Awards to a financial institution would other Participants have selected the Administrator, entity or bv and/or (iii) the exercise price of an outstanding Award is increased or reduced. The Administrator will determine the terms and conditions of any Exchange Program in its sole discretion.
 - (q) "Fair Market Value" means, as of any date, the value of Common Stock determined as follows:

- (i) For purposes of any Awards granted on the Registration Date, the Fair Market Value will be the initial price to the public as set forth in the final prospectus included within the registration statement in Form S-1 filed with the Securities and Exchange Commission for the initial public offering of the Company's Common Stock.
- For purposes of any Awards granted on any other date, Value will be the closing sales price for Common Stock as quoted on any established stock exchange or national market system (including without limitation the New York Stock Exchange, NASDAQ Global Select Market, the NASDAQ Global Market or the NASDAQ Capital Market of The NASDAQ Stock Market) on which the Common Stock is listed on the date of determination (or the closing bid, if no sales were reported), as reported in The Wall Street Journal or such other source as the Administrator deems reliable. If the determination date for the Fair Market Value occurs on a non-trading day (i.e., a weekend or holiday), the Fair Market Value will be such price on the immediately preceding trading day, unless otherwise determined by the Administrator. In the absence of an established market for the Common Stock, the Fair Market Value thereof will be determined in good faith by the Administrator.

The determination of fair market value for purposes of tax withholding may be made in the Administrator's discretion subject to Applicable Laws and is not required to be consistent with the determination of Fair Market Value for other purposes.

- (r) "Fiscal Year" means the fiscal year of the Company.
- (s) "Incentive Stock Option" means an Option intended to qualify as an incentive stock option within the meaning of Section 422 of the Code and the regulations promulgated thereunder.
- (t) "Nonstatutory Stock Option" means an Option that by its terms does not qualify or is not intended to qualify as an Incentive Stock Option.
- (u) "Officer" means a person who is an officer of the Company within the meaning of Section 16 of the Exchange Act and the rules and regulations promulgated thereunder.
 - (v) "Option" means a stock option granted pursuant to the Plan.
 - (w) "Outside Director" means a Director who is not an Employee.
 - (x) "Parent" means a "parent corporation," whether now or hereafter existing, as defined in Section 424(e) of the Code.
 - (y) "Participant" means the holder of an outstanding Award.
- (z) "<u>Performance Share</u>" means an Award denominated in Shares which may be earned in whole or in part upon attainment of performance goals or other vesting criteria as the Administrator may determine pursuant to Section 10.
- (aa) "<u>Performance Unit</u>" means an Award which may be earned in whole or in part upon attainment of performance goals or other vesting criteria as the Administrator may determine and which may be settled for cash, Shares or other securities or a combination of the foregoing

- (bb) "Period of Restriction" means the period during which the transfer of Shares of Restricted Stock are subject to restrictions and therefore, the Shares are subject to a substantial risk of forfeiture. Such restrictions may be based on the passage of time, the achievement of target levels of performance, or the occurrence of other events as determined by the Administrator.
 - (cc) "Plan" means this 2019 Equity Incentive Plan.
- (dd) "Registration Date" means the effective date of the first registration statement that is filed by the Company and declared effective pursuant to Section 12(b) of the Exchange Act, with respect to any class of the Company's securities.
- (ee) "Restricted Stock" means Shares issued pursuant to a Restricted Stock award under Section 7 of the Plan, or issued pursuant to the early exercise of an Option.
- (ff) "<u>Restricted Stock Unit</u>" means a bookkeeping entry representing an amount equal to the Fair Market Value of one Share, granted pursuant to Section 8. Each Restricted Stock Unit represents an unfunded and unsecured obligation of the Company.
- (gg) "Rule 16b-3" means Rule 16b-3 of the Exchange Act or any successor to Rule 16b-3, as in effect when discretion is being exercised with respect to the Plan.
 - (hh) "Section 16(b)" means Section 16(b) of the Exchange Act.
- (ii) "Section 409A" means Code Section 409A, as it has been and may be amended from time to time, and any proposed or final Treasury Regulations and Internal Revenue Service guidance that has been promulgated or may be promulgated thereunder from time to time.
 - (jj) "<u>Securities Act</u>" means the Securities Act of 1933, as amended. (kk) "<u>Service Provider</u>" means an Employee, Director or Consultant.
 - (ll) "Share" means a share of the Common Stock, as adjusted in accordance with Section 14 of the Plan.
- (mm) "Stock Appreciation Right" means an Award, granted alone or in connection with an Option, that pursuant to Section 9 is designated as a Stock Appreciation Right.
 - (nn) "Subsidiary" means a "subsidiary corporation," whether now or hereafter existing, as defined in Section 424(f) of the Code.

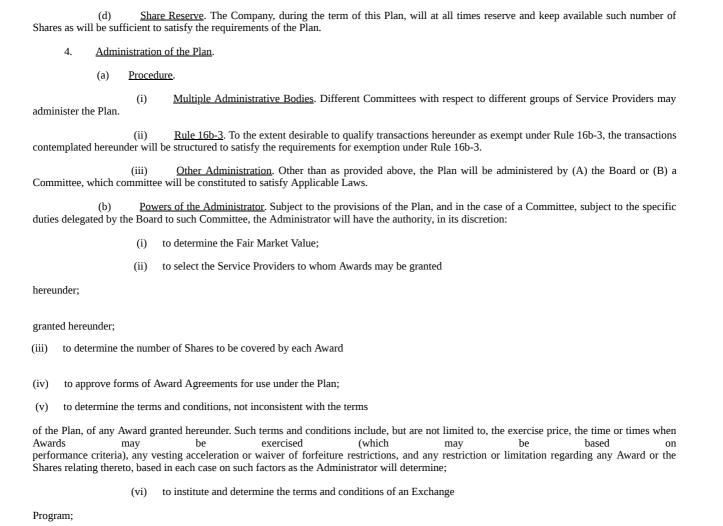
3. Stock Subject to the Plan.

(a) <u>Stock Subject to the Plan</u>. Subject to the provisions of Section 14 of the Plan and the automatic increase set forth in Section 3(b) of the Plan, the maximum aggregate number of Shares that may be issued under the Plan is 2,317,000 Shares, plus (i) any Shares that, as of the date of stockholder approval of this Plan, have been reserved but not issued pursuant to any awards granted

under the Company's 2007 Stock Plan (the "2007 Plan") and are not subject to any awards granted thereunder, and (ii) any Shares subject to stock options or similar awards granted under the 2007 Plan that, after the date of stockholder approval of this Plan, expire or otherwise terminate without having been exercised in full and Shares issued pursuant to awards granted under the 2007 Plan that, after the date of stockholder approval of this Plan, are forfeited to or repurchased by the Company, with the maximum number of Shares to be added to the Plan pursuant to clauses (i) and

(ii) equal to 11,260,827 Shares. The Shares may be authorized, but unissued, or reacquired Common Stock.

- (b) <u>Automatic Share Reserve Increase</u>. Subject to the provisions of Section 14 of the Plan, the number of Shares available for issuance under the Plan will be increased on the first day of each Fiscal Year beginning with the 2020 Fiscal Year, in an amount equal to the least of (i) 3,000,000 Shares, (ii) four percent (4%) of the outstanding Shares on the last day of the immediately preceding Fiscal Year or (iii) such number of Shares determined by the Board.
- Lapsed Awards. If an Award expires or becomes unexercisable without having been exercised in full, is surrendered Exchange pursuant Program. with Restricted Stock, Restricted Stock Units, Performance Units or Performance Shares, is forfeited to or repurchased by the Company due to failure to vest, the unpurchased Shares (or for Awards other than Options or Stock Appreciation Rights the forfeited or repurchased Shares), which were subject thereto will become available for future grant or sale under the Plan (unless the Plan has terminated). With respect to Stock Appreciation Rights, only Shares actually issued (i.e., the net Shares issued) pursuant to a Stock Appreciation Right will cease to be available under the Plan; all remaining Shares under Stock Appreciation Rights will remain available for future grant or sale under the Plan (unless the Plan has terminated). Shares that have actually been issued under the Plan under any Award will not be returned to the Plan and will not become available for future distribution under the Plan; provided, however, that if Shares issued pursuant to Awards of Restricted Stock, Restricted Stock Units, Performance Shares or Performance Units are repurchased by the Company or are forfeited to the Company, such Shares will become available for future grant under the Plan. Shares used to pay the exercise price of an Award or to satisfy the tax withholding obligations related to an Award will become available for future grant or sale under the Plan. To the extent an Award under the Plan is paid out in cash rather than Shares, such cash payment will not result in reducing the number of Shares available for issuance under the Plan. Notwithstanding the foregoing and, subject to adjustment as provided in Section 14, the maximum number of Shares that may be issued upon the exercise of Incentive Stock Options will equal the aggregate Share number stated in Section 3(a), plus, to the extent allowable under Section 422 of the Code and the Treasury Regulations promulgated thereunder, any Shares that become available for issuance under the Plan pursuant to Sections 3(b) and



pursuant to the Plan;

(viii)

-8-

to construe and interpret the terms of the Plan and Awards granted

to prescribe, amend and rescind rules and regulations relating to the

Plan, including rules and regulations relating to sub-plans established for the purpose of satisfying

applicable non-U.S. laws or for qualifying for favorable tax treatment under applicable non-U.S. laws;

- (ix) to modify or amend each Award (subject to Section 19 of the Plan), including but not limited to the discretionary authority to extend the post-termination exercisability period of Awards and to extend the maximum term of an Option (subject to Section 6(b) of the Plan regarding Incentive Stock Options);
 - (x) to allow Participants to satisfy tax withholding obligations in such manner as prescribed in Section 15 of the Plan;
- (xi) to authorize any person to execute on behalf of the Company any instrument required to effect the grant of an Award previously granted by the Administrator;
- (xii) to allow a Participant to defer the receipt of the payment of cash or the delivery of Shares that would otherwise be due to such Participant under an Award; and
 - (xiii) to make all other determinations deemed necessary or advisable for administering the Plan.
- (c) <u>Effect of Administrator's Decision</u>. The Administrator's decisions, determinations and interpretations will be final and binding on all Participants and any other holders of Awards.
- 5. <u>Eligibility</u>. Nonstatutory Stock Options, Stock Appreciation Rights, Restricted Stock, Restricted Stock Units, Performance Shares and Performance Units may be granted to Service Providers. Incentive Stock Options may be granted only to Employees.

Stock Options.

- (a) <u>Limitations</u>. Each Option will be designated in the Award Agreement as either an Incentive Stock Option or a Nonstatutory Stock Option. However, notwithstanding such designation, to the extent that the aggregate fair market value of the shares with respect to which incentive stock options are exercisable for the first time by the Participant during any calendar year (under all plans of the Company and any Parent or Subsidiary) exceeds one hundred thousand dollars (\$100,000), such options will be treated as nonstatutory stock options. For purposes of this Section 6(a), incentive stock options will be taken into account in the order in which they were granted. The fair market value of the shares will be determined as of the time the option with respect to such shares is granted.
- (b) Term of Option. The term of each Option will be stated in the Award Agreement. In the case of an Incentive Stock Option, the term will be ten (10) years from the date of grant or such shorter term as may be provided in the Award Agreement. Moreover, in the case of an Incentive Stock Option granted to a Participant who, at the time the Incentive Stock Option is granted, owns stock representing more than ten percent (10%) of the total combined voting power of all classes of stock of the Company or any Parent or Subsidiary, the term of the Incentive Stock Option will be five (5) years from the date of grant or such shorter term as may be provided in the Award Agreement.

(d) <u>Exercise of Option</u>.

conditions as determined by the Administrator and set forth in the Award Agreement. An Option may not be exercised for a fraction of a Share.

will be deemed exercised when the An Option Company notice of exercise (in such form as the Administrator may specify from time to time) from the person entitled to exercise the Option, and (ii) full payment for the Shares with respect to which the Option is exercised (together with applicable withholding taxes). Full payment may consist of any consideration and method of payment authorized by the Administrator and permitted by the Award Agreement and the Plan. Shares issued upon exercise of an Option will be issued in the name of the Participant or, if requested by the Participant, in the name of the Participant and his or her spouse. Until the Shares are issued (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company), no right to vote or receive dividends or any other rights as a stockholder will exist with respect to the Shares subject to an Option, notwithstanding the exercise of the Option. The Company will issue (or cause to be issued) such Shares promptly after the Option is exercised. No adjustment will be made for a dividend or other right for which the record date is prior to the date the Shares are issued, except as provided in Section 14 of the Plan.

Exercising an Option in any manner will decrease the number of Shares thereafter available, both for purposes of the Plan and for sale under the Option, by the number of Shares as to which the Option is exercised.

- (ii) Termination of Relationship as a Service Provider. If a Participant ceases to be a Service Provider, other than upon the Participant's termination as the result of the Participant's death or Disability, the Participant may exercise his or her Option within such period of time as is specified in the Award Agreement to the extent that the Option is vested on the date of termination (but in no event later than the expiration of the term of such Option as set forth in the Award Agreement). In the absence of a specified time in the Award Agreement, the Option will remain exercisable for three (3) months following the Participant's termination. Unless otherwise provided by the Administrator, if on the date of termination the Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will revert to the Plan. If after termination the Participant does not exercise his or her Option within the time specified by the Administrator, the Option will terminate, and the Shares covered by such Option will revert to the Plan.
- (iii) <u>Disability of Participant</u>. If a Participant ceases to be a Service Provider as a result of the Participant's Disability, the Participant may exercise his or her Option within such period of time as is specified in the Award Agreement to the extent the Option is vested on the date of termination (but in no event later than the expiration of the term of such Option as set forth in the Award Agreement). In the absence of a specified time in the Award Agreement, the Option will remain exercisable for twelve (12) months following the Participant's termination. Unless otherwise provided by the Administrator, if on the date of termination the Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will revert to the Plan. If after termination the Participant does not exercise his or her Option within the time specified herein, the Option will terminate, and the Shares covered by such Option will revert to the Plan.

(iv) Death of Participant. If a Participant dies while a Service Provider, the Option may be exercised following the Participant's death within such period of time as is specified in the Award Agreement to the extent that the Option is vested on the date of death (but in no event may the option be exercised later than the expiration of the term of such Option as set forth in the Award Agreement), by the Participant's designated beneficiary, provided such beneficiary has been designated prior to Participant's death in a form acceptable to the Administrator. If no such beneficiary has been designated by the Participant, then such Option may be exercised by the personal representative of the Participant's estate or by the person(s) to whom the Option is transferred pursuant to the Participant's will or in accordance with the laws of descent and distribution. In the absence of a specified time in the Award Agreement, the Option will remain exercisable for twelve (12) months following Participant's death. Unless otherwise provided by the Administrator, if at the time of death Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will immediately revert to the Plan. If the Option is not so exercised within the time specified herein, the Option will terminate, and the Shares covered by such Option will revert to the Plan.

Tolling Expiration. A Participant's Award Agreement may also

provide that:

(1) if the exercise of the Option following the termination of

Participant's status as a Service Provider (other than upon the Participant's death or Disability) would result in liability under Section 16(b), then the Option will terminate on the earlier of (A) the expiration of the term of the Option set forth in the Award Agreement, or (B) the tenth (10^{th}) day after the last date on which such exercise would result in liability under Section 16(b); or

(2) if the exercise of the Option following the termination of the Participant's status as a Service Provider (other than upon the Participant's death or Disability) would be prohibited at any time solely because the issuance of Shares would violate the registration requirements under the Securities Act, then the Option will terminate on the earlier of (A) the expiration of the term of the Option or (B) the expiration of a period of thirty (30)-day period after the termination of the Participant's status as a Service Provider during which the exercise of the Option would not be in violation of such registration requirements.

Restricted Stock.

- (a) <u>Grant of Restricted Stock</u>. Subject to the terms and provisions of the Plan, the Administrator, at any time and from time to time, may grant Shares of Restricted Stock to Service Providers in such amounts as the Administrator, in its sole discretion, will determine.
- (b) Restricted Stock Agreement. Each Award of Restricted Stock will be evidenced by an Award Agreement that will specify the Period of Restriction, the number of Shares granted, and such other terms and conditions as the Administrator, in its sole discretion, will determine. Unless the Administrator determines otherwise, the Company as escrow agent will hold Shares of Restricted Stock until the restrictions on such Shares have lapsed.

- (c) <u>Transferability.</u> Except as provided in this Section 7 or the Award Agreement, Shares of Restricted Stock may not be sold, transferred, pledged, assigned, or otherwise alienated or hypothecated until the end of the applicable Period of Restriction.
- (d) Other Restrictions. The Administrator, in its sole discretion, may impose such other restrictions on Shares of Restricted Stock as it may deem advisable or appropriate.
- (e) <u>Removal of Restrictions</u>. Except as otherwise provided in this Section 7, Shares of Restricted Stock covered by each Restricted Stock grant made under the Plan will be released from escrow as soon as practicable after the last day of the Period of Restriction or at such other time as the Administrator may determine. The Administrator, in its discretion, may accelerate the time at which any restrictions will lapse or be removed.
- (f) <u>Voting Rights</u>. During the Period of Restriction, Service Providers holding Shares of Restricted Stock granted hereunder may exercise full voting rights with respect to those Shares, unless the Administrator determines otherwise.
- (g) <u>Dividends and Other Distributions</u>. During the Period of Restriction, Service Providers holding Shares of Restricted Stock will be entitled to receive all dividends and other distributions paid with respect to such Shares, unless the Administrator provides otherwise. If any such dividends or distributions are paid in Shares, the Shares will be subject to the same restrictions on transferability and forfeitability as the Shares of Restricted Stock with respect to which they were paid.
- (h) Return of Restricted Stock to Company. On the date set forth in the Award Agreement, the Restricted Stock for which restrictions have not lapsed will revert to the Company and again will become available for grant under the Plan.

8. Restricted Stock Units.

- (a) <u>Grant.</u> Restricted Stock Units may be granted at any time and from time to time as determined by the Administrator. After the Administrator determines that it will grant Restricted Stock Units under the Plan, it will advise the Participant in an Award Agreement of the terms, conditions, and restrictions related to the grant, including the number of Restricted Stock U n i t s.
- (b) <u>Vesting Criteria and Other Terms</u>. The Administrator will set vesting criteria in its discretion, which, depending on the extent to which the criteria are met, will determine the number of Restricted Stock Units that will be paid out to the Participant. The Administrator may set vesting criteria based upon the achievement of Company-wide, divisional, business unit, or individual goals (including, but not limited to, continued employment or service), applicable federal or state securities laws or any other basis determined by the Administrator in its discretion.
- (c) <u>Earning Restricted Stock Units</u>. Upon meeting the applicable vesting criteria, the Participant will be entitled to receive a payout as determined by the Administrator. Notwithstanding the foregoing, at any time after the grant of Restricted Stock Units, the Administrator, in its sole discretion, may reduce or waive any vesting criteria that must be met to

receive a payout.

- (d) <u>Form and Timing of Payment</u>. Payment of earned Restricted Stock Units will be made as soon as practicable after the date(s) determined by the Administrator and set forth in the Award Agreement. The Administrator, in its sole discretion, may only settle earned Restricted Stock Units in cash, Shares, or a combination of both.
- (e) <u>Cancellation</u>. On the date set forth in the Award Agreement, all unearned Restricted Stock Units will be forfeited to the Company.

9. Stock Appreciation Rights.

- (a) <u>Grant of Stock Appreciation Rights</u>. Subject to the terms and conditions of the Plan, a Stock Appreciation Right may be granted to Service Providers at any time and from time to time as will be determined by the Administrator, in its sole discretion.
- (b) <u>Number of Shares</u>. The Administrator will have complete discretion to determine the number of Stock Appreciation Rights granted to any Service Provider.
- (c) <u>Exercise Price and Other Terms</u>. The per share exercise price for the Shares to be issued pursuant to exercise of a Stock Appreciation Right will be determined by the Administrator and will be no less than one hundred percent (100%) of the Fair Market Value per Share on the date of grant. Otherwise, the Administrator, subject to the provisions of the Plan, will have complete discretion to determine the terms and conditions of Stock Appreciation Rights granted under the Plan.
- (d) <u>Stock Appreciation Right Agreement.</u> Each Stock Appreciation Right grant will be evidenced by an Award Agreement that will specify the exercise price, the term of the Stock Appreciation Right, the conditions of exercise, and such other terms and conditions as the Administrator, in its sole discretion, will determine.
- (e) Expiration of Stock Appreciation Rights. A Stock Appreciation Right granted under the Plan will expire ten (10) years from the date of grant or such shorter term as may be provided in the Award Agreement, as determined by the Administrator, in its sole discretion. Notwithstanding the foregoing, the rules of Section 6(d) relating to exercise also will apply to Stock Appreciation Rights.
- (f) <u>Payment of Stock Appreciation Right Amount</u>. Upon exercise of a Stock Appreciation Right, a Participant will be entitled to receive payment from the Company in an amount determined by multiplying:
 - (i) The difference between the Fair Market Value of a Share on the date of exercise over the exercise price; times
 - (ii) The number of Shares with respect to which the Stock Appreciation

Right is exercised.

At the discretion of the Administrator, the payment upon Stock Appreciation Right exercise

may be in cash, in Shares of equivalent value, or in some combination thereof.

10. Performance Units and Performance Shares.

- (a) <u>Grant of Performance Units/Shares</u>. Performance Units and Performance Shares may be granted to Service Providers at any time and from time to time, as will be determined by the Administrator, in its sole discretion. The Administrator will have complete discretion in determining the number of Performance Units and Performance Shares granted to each Participant.
- (b) <u>Value of Performance Units/Shares</u>. Each Performance Unit will have an initial value that is established by the Administrator on or before the date of grant. Each Performance Share will have an initial value equal to the Fair Market Value of a Share on the date of grant.
- Objectives Other The Performance and Terms. Administrator will set performance objectives or other vesting provisions (including, without limitation, continued status as a Service Provider) in its discretion which, depending on the extent to which they are met, will determine the number or value of Performance Units/Shares that will be paid out to the Service Providers. The time period during which the performance objectives or other vesting provisions must be met will be called the "Performance Period." Each Award of Performance Units/Shares will be evidenced by an Award Agreement that will specify the Performance Period, and such other terms and conditions as the Administrator, in its sole discretion, will determine. The Administrator may set performance objectives based upon the achievement of Company-wide, divisional, business unit or individual goals (including, but not limited to, continued employment or service), applicable federal or state securities laws, or any other basis determined by the Administrator in its discretion.
- (d) <u>Earning of Performance Units/Shares</u>. After the applicable Performance Period has ended, the holder of Performance Units/Shares will be entitled to receive a payout of the number of Performance Units/Shares earned by the Participant over the Performance Period, to be determined as a function of the extent to which the corresponding performance objectives or other vesting provisions have been achieved. After the grant of a Performance Unit/Share, the Administrator, in its sole discretion, may reduce or waive any performance objectives or other vesting provisions for such Performance Unit/Share.
- (e) <u>Form and Timing of Payment of Performance Units/Shares</u>. Payment of earned Performance Units/Shares will be made as soon as practicable after the expiration of the applicable Performance Period. The Administrator, in its sole discretion, may pay earned Performance Units/Shares in the form of cash, in Shares (which have an aggregate Fair Market Value equal to the value of the earned Performance Units/Shares at the close of the applicable Performance Period) or in a combination thereof.
- (f) <u>Cancellation of Performance Units/Shares</u>. On the date set forth in the Award Agreement, all unearned or unvested Performance Units/Shares will be forfeited to the Company, and again will be available for grant under the Plan.
- 11. <u>Outside Director Limitations</u>. No Outside Director may be paid, issued or granted, in any Fiscal Year, cash compensation and equity awards (including any Awards issued under this Plan) with an aggregate value greater than \$500,000, increased to \$1,000,000 in the Fiscal Year an Outside

Director initially becomes a member of the Board (with the value of each equity award based on its grant date fair value (determined in accordance with U.S. generally accepted accounting principles)). Any cash compensation paid or Awards granted to an individual for his or her services as an Employee, or for his or her services as a Consultant (other than as an Outside Director), will not count for purposes of the limitation under this Section 11.

- 12. <u>Leaves of Absence/Transfer Between Locations</u>. Unless the Administrator provides otherwise, vesting of Awards granted hereunder will be suspended during any unpaid leave of absence. A Participant will not cease to be an Employee in the case of (i) any leave of absence approved by the Company or (ii) transfers between locations of the Company or between the Company, its Parent, or any Subsidiary. For purposes of Incentive Stock Options, no such leave may exceed three (3) months, unless reemployment upon expiration of such leave is guaranteed by statute or contract. If reemployment upon expiration of a leave of absence approved by the Company is not so guaranteed, then six (6) months following the first (1st) day of such leave any Incentive Stock Option held by the Participant will cease to be treated as an Incentive Stock Option and will be treated for tax purposes as a Nonstatutory Stock Option.
- 13. <u>Transferability of Awards</u>. Unless determined otherwise by the Administrator, an Award may not be sold, pledged, assigned, hypothecated, transferred, or disposed of in any manner other than by will or by the laws of descent or distribution and may be exercised, during the lifetime of the Participant, only by the Participant. If the Administrator makes an Award transferable, such Award will contain such additional terms and conditions as the Administrator deems appropriate.

14. <u>Adjustments; Dissolution or Liquidation; Merger or Change in Control</u>.

- (a) Adjustments. In the event that any dividend or other distribution (whether in the form of cash, Shares, other securities, or other property), recapitalization, stock split, reverse stock split, reorganization, merger, consolidation, split-up, spin-off, combination, repurchase, or exchange of Shares or other securities of the Company, or other change in the corporate structure of the Company affecting the Shares occurs, the Administrator, in order to prevent diminution or enlargement of the benefits or potential benefits intended to be made available under the Plan, will adjust the number and class of Shares that may be delivered under the Plan and/or the number, class, and price of Shares covered by each outstanding Award, and the numerical Share limits in Section 3 of the Plan.
- (b) <u>Dissolution or Liquidation</u>. In the event of the proposed dissolution or liquidation of the Company, the Administrator will notify each Participant as soon as practicable prior to the effective date of such proposed transaction. To the extent it has not been previously exercised, an Award will terminate immediately prior to the consummation of such proposed action.
- (c) <u>Change in Control</u>. In the event of a merger of the Company with or into another corporation or other entity or a Change in Control, each outstanding Award will be treated as the Administrator determines subject to the restriction in the following paragraph, including, without limitation, that each Award be assumed or an equivalent option or right substituted by the successor corporation or a Parent or Subsidiary of the successor corporation. The Administrator will not be required to treat all Awards or Participants similarly in the transaction.

In the event that the successor corporation does not assume or substitute for the Award, the Participant will fully vest in and have the right to exercise all of his or her outstanding Options and Stock Appreciation Rights, including Shares as to which such Awards would not otherwise be vested or exercisable, all restrictions on Restricted Stock and Restricted Stock Units will lapse, and, with respect to Awards with performance-based vesting, unless specifically provided otherwise under the applicable Award Agreement, a Company policy applicable to the Participant, or other written agreement between the Participant and the Company, all performance goals or other vesting criteria will be deemed achieved at one hundred percent (100%) of target levels and all other terms and conditions met. In addition, if an Option or Stock Appreciation Right is not assumed or substituted in the event of a Change in Control, the Administrator will notify the Participant in writing or electronically that the Option or Stock Appreciation Right will be exercisable for a period of time determined by the Administrator in its sole discretion, and the Option or Stock Appreciation Right will terminate upon the expiration of such period.

For the purposes of this subsection (c), an Award will be considered assumed if, following the Change in Control, the Award confers the right to purchase or receive, for each Share subject to the Award immediately prior to the Change in Control, the consideration (whether stock, cash, or other securities or property) received in the Change in Control by holders of Common Stock for each Share held on the effective date of the transaction (and if holders were offered a choice of consideration, the type of consideration chosen by the holders of a majority of the outstanding Shares); provided, however, that if such consideration received in the Change in Control is not solely common stock of the successor corporation or its Parent, the Administrator may, with the consent of the successor corporation, provide for the consideration to be received upon the exercise of an Option or Stock Appreciation Right or upon the payout of a Restricted Stock Unit, Performance Unit or Performance Share, for each Share subject to such Award, to be solely common stock of the successor corporation or its Parent equal in fair market value to the per share consideration received by holders of Common Stock in the Change in Control.

Notwithstanding anything in this Section 14(c) to the contrary, an Award that vests, is earned or paid-out upon the satisfaction of one or more performance goals will not be considered assumed if the Company or its successor modifies any of such performance goals without the Participant's consent; provided, however, a modification to such performance goals only to reflect the successor corporation's post-Change in Control corporate structure will not be deemed to invalidate an otherwise valid Award assumption.

(d) <u>Outside Director Awards</u>. With respect to Awards granted to an Outside Director, in the event of a Change in Control, the Participant will fully vest in and have the right to exercise Options and/or Stock Appreciation Rights as to all of the Shares underlying such Award, including those Shares which would not otherwise be vested or exercisable, all restrictions on Restricted Stock and Restricted Stock Units will lapse, and, with respect to Awards with performance-based vesting, unless specifically provided otherwise under the applicable Award Agreement, a Company policy applicable to the Participant, or other written agreement between the Participant and the Company, all performance goals or other vesting criteria will be deemed achieved at one hundred percent (100%) of target levels and all other terms and conditions met.

15. Tax.

- (a) <u>Withholding Requirements</u>. Prior to the delivery of any Shares or cash pursuant to an Award (or exercise thereof) or such earlier time as any tax withholding obligations are due, the Company will have the power and the right to deduct or withhold, or require a Participant to remit to the Company, an amount sufficient to satisfy U.S. federal, state, or local taxes, non-U.S. taxes, or other taxes (including the Participant's FICA obligation) required to be withheld with respect to such Award (or exercise thereof).
- (b) <u>Withholding Arrangements</u>. The Administrator, in its sole discretion and pursuant to such procedures as it may specify from time to time, may permit a Participant to satisfy such tax withholding obligation, in whole or in part by (without limitation) (i) paying cash, (ii) electing to have the Company withhold otherwise deliverable cash or Shares having a fair market value not in excess of the maximum statutory amount required to be withheld, or (iii) delivering to the Company already-owned Shares having a fair market value not in excess of the maximum statutory amount required to be withheld. The fair market value of the Shares to be withheld or delivered will be determined as of the date that the taxes are required to be withheld.
- (c) Compliance With Section 409A. Awards will be designed and operated in such a manner that they are either exempt from the application of, or comply with, the requirements of Section 409A such that the grant, payment, settlement or deferral will not be subject to the additional tax or interest applicable under Section 409A, except as otherwise determined in the sole discretion of the Administrator. The Plan and each Award Agreement under the Plan is intended to meet the requirements of Section 409A and will be construed and interpreted in accordance with such intent, except as otherwise determined in the sole discretion of the Administrator. To the extent that an Award or payment, or the settlement or deferral thereof, is subject to Section 409A the Award will be granted, paid, settled or deferred in a manner that will meet the requirements of Section 409A, such that the grant, payment, settlement or deferral will not be subject to the additional tax or interest applicable under Section 409A. In no event will the Company (or any Parent or Subsidiary of the Company, as applicable) reimburse a Participant for any taxes imposed or other costs incurred as a result of Section 409A.
- 16. <u>No Effect on Employment or Service</u>. Neither the Plan nor any Award will confer upon a Participant any right with respect to continuing the Participant's relationship as a Service Provider, nor will they interfere in any way with the Participant's right or the right of the Company (or any Parent or Subsidiary of the Company) to terminate such relationship at any time, with or without cause, to the extent permitted by Applicable Laws.
- 17. <u>Date of Grant</u>. The date of grant of an Award will be, for all purposes, the date on which the Administrator makes the determination granting such Award, or such other later date as is determined by the Administrator. Notice of the determination will be provided to each Participant within a reasonable time after the date of such grant.

18. Term of Plan. Subject to Section 23 of the Plan, the Plan will become effective upon the later to occur of (i) its adoption by the Board or (ii) the business day immediately prior to the Registration Date. It will continue in effect for a term of ten (10) years from the date adopted by the Board, unless terminated earlier under Section 19 of the Plan.

19. Amendment and Termination of the Plan.

- (a) Amendment and Termination. The Administrator may at any time amend, alter, suspend or terminate the Plan.
- (b) <u>Stockholder Approval</u>. The Company will obtain stockholder approval of any Plan amendment to the extent necessary and desirable to comply with Applicable Laws.
- (c) <u>Effect of Amendment or Termination</u>. No amendment, alteration, suspension or termination of the Plan will materially impair the rights of any Participant, unless mutually agreed otherwise between the Participant and the Administrator, which agreement must be in writing and signed by the Participant and the Company. Termination of the Plan will not affect the Administrator's ability to exercise the powers granted to it hereunder with respect to Awards granted under the Plan prior to the date of such termination.

20. <u>Conditions Upon Issuance of Shares</u>.

- (a) <u>Legal Compliance</u>. Shares will not be issued pursuant to an Award unless the exercise of such Award and the issuance and delivery of such Shares will comply with Applicable Laws and will be further subject to the approval of counsel for the Company with respect to such compliance.
- (b) <u>Investment Representations</u>. As a condition to the exercise of an Award, the Company may require the person exercising such Award to represent and warrant at the time of any such exercise that the Shares are being purchased only for investment and without any present intention to sell or distribute such Shares if, in the opinion of counsel for the Company, such a representation is required.
- 21. <u>Inability to Obtain Authority</u>. The inability of the Company to obtain authority from any regulatory body having jurisdiction or to complete or comply with the requirements of any registration or other qualification of the Shares under any U.S. federal or state law, any non-U.S. law, or the rules and regulations of the Securities and Exchange Commission, the stock exchange on which Shares of the same class are then listed, or any other governmental or regulatory body, which authority, registration, qualification or rule compliance is deemed by the Company's counsel to be necessary or advisable for the issuance and sale of any Shares hereunder, will relieve the Company of any liability in respect of the failure to issue or sell such Shares as to which such requisite authority, registration, qualification or rule compliance will not have been obtained.
- 22. <u>Clawback</u>. The Administrator may specify in an Award Agreement that the Participant's rights, payments, and/or benefits with respect to an Award will be subject to reduction, cancellation, forfeiture, and/or recoupment upon the occurrence of certain specified events, in addition to any applicable vesting, performance or other conditions and restrictions of an Award.

Notwithstanding any provisions to the contrary under this Plan, an Award granted under the Plan

shall be subject to the Company's clawback policy (if any) as may be established and/or amended from time to time. The Board may require a Participant to forfeit or return to and/or reimburse the Company all or a portion of the Award and/or Shares issued under the Award, any amounts paid under the Award, and any payments or proceeds paid or provided upon disposition of the Shares issued under the Award, pursuant to the terms of such Company policy or as necessary or appropriate to comply with Applicable Laws.

23. <u>Stockholder Approval</u>. The Plan will be subject to approval by the stockholders of the Company within twelve (12) months after the date the Plan is adopted by the Board. Such stockholder approval will be obtained in the manner and to the degree required under Applicable Laws.

SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN STOCK OPTION AGREEMENT

Unless otherwise defined herein, the terms defined in the Silk Road Medical, Inc. 2019 Equity Incentive Plan (the "Plan") will have the same defined meanings in this Stock Option Agreement, which includes the Notice of Stock Option Grant (the "Notice of Grant"), the Terms and Conditions of Stock Option Grant attached hereto as Exhibit B, and all other exhibits and appendices attached hereto (all together, the "Option Agreement").

NOTICE OF STOCK OPTION GRANT

Participant:	
Address:	
The undersigned Participant has been granted a to the terms and conditions of the Plan and this Option	an Option to purchase Common Stock of Silk Road Medical, Inc. (the "Company"), subject Agreement, as follows:
Grant Number:	
Date of Grant:	
Vesting Commencement Date:	
Number of Shares Granted:	
Exercise Price per Share (in U.S. Dollars):	\$
Total Exercise Price(in U.S. Dollars):	\$
Type of Option:	Incentive Stock Option
	Nonstatutory Stock Option
Term/Expiration Date:	
<u>Vesting Schedule</u> :	
Subject to accelerated vesting as set forth below following schedule:	v or in the Plan, this Option will be exercisable, in whole or in part, in accordance with the
[Twenty-five percent (25%) of the Shares subje anniversary of the Vesting Commencement Date, and o	1

to the Option shall vest each month thereafter on the same day of the month as the Vesting Commencement Date (and if there is no corresponding day, on the last day of the month), subject to Participant continuing to be a Service Provider through each such date.]

Termination Period:

This Option will be exercisable for [three (3) months] after Participant ceases to be a Service Provider, unless such termination is due to Participant's death or Disability, in which case this Option will be exercisable for [twelve (12) months] after Participant ceases to be a Service Provider. Notwithstanding the foregoing sentence, in no event may this Option be exercised after the Term/Expiration Date as provided above and this Option may be subject to earlier termination as provided in Section 14 of the Plan.

By Participant's signature and the signature of the representative of the Company below, Participant and the Company agree that this Option is granted under and governed by the terms and conditions of the Plan and this Option Agreement, including the Terms and Conditions of Stock Option Grant, attached hereto as Exhibit A, all of which are made a part of this document. Participant acknowledges receipt of a copy of the Plan. Participant has reviewed the Plan and this Option Agreement in their entirety, has had an opportunity to obtain the advice of counsel prior to executing this Option Agreement, and fully understands all provisions of the Plan and this Option Agreement. Participant hereby agrees to accept as binding, conclusive, and final all decisions or interpretations of the Administrator upon any questions relating to the Plan and the Option Agreement. Participant further agrees to notify the Company upon any change in the residence address indicated below.

PARTICIPANT	SILK ROAD MEDICAL, INC.	
Signature	Signature	
Print Name	Print Name	
	Title	
Address:		

EXHIBIT A

TERMS AND CONDITIONS OF STOCK OPTION GRANT

1. Grant of Option.

- (a) The Company hereby grants to the individual ("Participant") named in the Notice of Stock Option Grant of this Option Agreement (the "Notice of Grant") an option (the "Option") to purchase the number of Shares set forth in the Notice of Grant, at the exercise price per Share set forth in the Notice of Grant (the "Exercise Price"), subject to all of the terms and conditions in this Option Agreement and the Plan, which is incorporated herein by this reference. Subject to Section 19(c) of the Plan, in the event of a conflict between the terms and conditions of the Plan and the terms and conditions of this Option Agreement, the terms and conditions of the Plan will prevail.
- (b) For U.S. taxpayers, the Option will be designated as either an Incentive Stock Option ("ISO") or a Nonstatutory Stock Option ("NSO"). If designated in the Notice of Grant as an ISO, this Option is intended to qualify as an ISO under Section 422 of the Internal Revenue Code of 1986, as amended (the "Code"). However, if this Option is intended to be an ISO, to the extent that it exceeds the \$100,000 rule of Code Section 422(d) it will be treated as an NSO. Further, if for any reason this Option (or portion thereof) will not qualify as an ISO, then, to the extent of such nonqualification, such Option (or portion thereof) shall be regarded as a NSO granted under the Plan. In no event will the Administrator, the Company or any Parent or Subsidiary or any of their respective employees or directors have any liability to Participant (or any other person) due to the failure of the Option to qualify for any reason as an ISO.
 - (c) For non-U.S. taxpayers, the Option will be designated as an NSO.
- 2. <u>Vesting Schedule</u>. Except as provided in Section <u>3</u>, the Option awarded by this Option Agreement will vest in accordance with the vesting provisions set forth in the Notice of Grant. Shares subject to this Option that are scheduled to vest on a certain date or upon the occurrence of a certain condition will not vest in accordance with any of the provisions of this Option Agreement, unless Participant will have been continuously a Service Provider from the Date of Grant until the date such vesting occurs.
- 3. <u>Administrator Discretion</u>. The Administrator, in its discretion, may accelerate the vesting of the balance, or some lesser portion of the balance, of the unvested Option at any time, subject to the terms of the Plan. If so accelerated, such Option will be considered as having vested as of the date specified by the Administrator.

4. Exercise of Option.

(a) Right to Exercise. This Option may be exercised only within the term set out in the Notice of Grant, and may be exercised during such term only in accordance with the Plan and the terms of this Option Agreement.

- Method of Exercise. This Option is exercisable by delivery of an exercise notice (the "Exercise Notice") in the form (b) attached as Exhibit B to the Notice of Grant or in a manner and pursuant to such procedures as the Administrator may determine, which will state the election to exercise the Option, the number of Shares in respect of which the Option is being exercised (the "Exercised Shares"), and such other representations and agreements as may be required by the Company pursuant to the provisions of the Plan. The Exercise Notice will be completed Participant and delivered to the Company. The Exercise Notice will by payment of the aggregate Exercise Price as to all Exercised Shares and of any Tax Obligations (as defined in Section 6(a)). This Option will be deemed to be exercised upon receipt by the Company of such fully executed Exercise Notice accompanied by the aggregate Exercise Price.
- 5. <u>Method of Payment</u>. Payment of the aggregate Exercise Price will be by any of the following, or a combination thereof, at the election of Participant:
 - (a) cash in U.S. dollars;
 - (b) check designated in U.S. dollars;
- (c) consideration received by the Company under a formal cashless exercise program adopted by the Company in connection with the Plan; or
- (d) if Participant is a U.S. employee, surrender of other Shares which have a Fair Market Value on the date of surrender equal to the aggregate Exercise Price of the Exercised Shares and that are owned free and clear of any liens, claims, encumbrances, or security interests, provided that accepting such Shares, in the sole discretion of the Administrator, will not result in any adverse accounting consequences to the Company.

6. <u>Tax Obligations</u>.

Responsibility for Taxes. Participant acknowledges that, regardless of any action taken by the Company or, if different, Participant's employer (the "Employer") or Parent or Subsidiary to which Participant is providing services (together, the Company, Employer and/or Parent or Subsidiary to which the Participant is providing services, the "Service Recipient"), the ultimate liability for any tax and/or social insurance liability obligations and requirements in connection with the Option, including, without limitation, (i) all federal, state, and local taxes (including the Participant's Federal Insurance Contributions Act (FICA) obligation) that are required to be withheld by the Company or the Service Recipient or other payment of tax-related items related to Participant's participation in the Plan and legally applicable to Participant, (ii) the Participant's and, to the extent required by the Company (or Service Recipient), the Company's (or Service Recipient's) fringe benefit tax liability, if any, associated with the grant, vesting, or exercise of the Option or sale of Shares, and (iii) any other Company (or Service Recipient) taxes the responsibility for which the Participant has, or has agreed to bear, with respect to the Option (or exercise thereof or issuance of Shares thereunder) (collectively, the "Tax Obligations"), is and remains Participant's responsibility and may exceed the amount actually withheld by the Company or Service further acknowledges Recipient. Participant that the Company and/or Service Recipient (A) make no representations or undertakings regarding the treatment of any Tax

Obligations in connection with any aspect of the Option, including, but not limited to, the grant, vesting or exercise of the Option, the subsequent sale of Shares acquired pursuant to such exercise and the receipt of any dividends or other distributions, and (B) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Option to reduce or eliminate Participant's liability for Tax Obligations or achieve any particular tax result. Further, if Participant is subject to Tax Obligations in more than one jurisdiction between the Date of Grant and the date of any relevant taxable or tax withholding event, as applicable, Participant acknowledges that the Company and/or the Service Recipient (or former employer, as applicable) may be required to withhold or account for Tax Obligations in more than one jurisdiction. If Participant fails to make satisfactory arrangements for the payment of any required Tax Obligations hereunder at the time of the applicable taxable event, Participant acknowledges and agrees that the Company may refuse to issue or deliver the Shares.

- Tax Withholding. When the Option exercised, **Participant** generally will is recognize immediate U.S. taxable income if Participant is a U.S. taxpayer. If Participant is a non-U.S. taxpayer, Participant will be subject to applicable taxes in his or her jurisdiction. Pursuant to such procedures as the Administrator may specify from time to time, the Company and/or Service Recipient shall withhold the amount required to be withheld for the payment of Tax Obligations. The Administrator, in its sole discretion and pursuant to such procedures as it may specify from time to time, may permit Participant to satisfy such Tax Obligations, in whole or in part (without limitation), if permissible by applicable local law, by (i) paying cash, (ii) electing to have the Company withhold otherwise deliverable Shares having a fair market value equal to the minimum amount that is necessary to meet the withholding requirement for such Tax Obligations (or such greater amount as Participant may elect if permitted by the Administrator, if such greater amount would not result in adverse financial accounting consequences), (iii) withholding the amount of such Tax Obligations from Participant's wages or other cash compensation paid to Participant by the Company and/or the Service Recipient, (iv) delivering to the Company already vested and owned Shares having a fair market value equal to such Tax Obligations, or (v) selling a sufficient number of such Shares otherwise deliverable to Participant through such means as the Company may determine in its sole discretion (whether through a broker or otherwise) equal to the minimum amount that is necessary to meet the withholding requirement for such Tax Obligations (or such greater amount as Participant may elect if permitted by the Administrator, if such greater amount would not result in adverse financial accounting consequences). To the extent determined appropriate by the Company in its discretion, it will have the right (but not the obligation) to satisfy any Tax Obligations by reducing the number of Shares otherwise deliverable to Participant. Further, if Participant is subject to tax in more than one jurisdiction between the Date of Grant and a date of any relevant taxable or tax withholding event, as applicable, Participant acknowledges and agrees that the Company and/or the Service Recipient (and/or former employer, as applicable) may be required to withhold or account for tax in more than one jurisdiction. If Participant fails to make satisfactory arrangements for the payment of any required Tax Obligations hereunder at the time of the Option exercise, Participant acknowledges and agrees that the Company may refuse to honor the exercise and refuse to deliver the Shares if such amounts are not delivered at the time of exercise.
- (c) <u>Notice of Disqualifying Disposition of ISO Shares</u>. If the Option granted to Participant herein is an ISO, and if Participant sells or otherwise disposes of any of the Shares acquired pursuant to the ISO on or before the later of (i) the date two (2) years after the Date of

Grant, or (ii) the date one (1) year after the date of exercise, Participant will immediately notify the Company in writing of such disposition. Participant agrees that Participant may be subject to income tax withholding by the Company on the compensation income recognized by Participant.

- (d) Code Section 409A. Under Code Section 409A, a stock right (such as the Option) that vests after December 31, 2004 (or that vested on or prior to such date but which was materially modified after October 3, 2004) that was granted with a per share exercise price that is determined by the Internal Revenue Service (the "IRS") to be less than the fair market value of an underlying share on the date of grant (a "discount option") may be considered "deferred compensation." A stock right that is a "discount option" may result in (i) income recognition by the recipient of the stock right prior to the exercise of the stock right, (ii) an additional twenty percent (20%) federal income tax, and (iii) potential penalty and interest charges. The "discount option" may also result in additional state income, penalty and interest tax to the recipient of the stock right. Participant acknowledges that the Company cannot and has not guaranteed that the IRS will agree that the per Share exercise price of this Option equals or exceeds the fair market value of a Share on the date of grant in a later examination. Participant agrees that if the IRS determines that the Option was granted with a per Share exercise price that was less than the fair market value of a Share on the date of grant, Participant shall be solely responsible for Participant's costs related to such a determination.
- 7. <u>Rights as Stockholder</u>. Neither Participant nor any person claiming under or through Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares deliverable hereunder unless and until certificates representing such Shares (which may be in book entry form) will have been issued, recorded on the records of the Company or its transfer agents or registrars, and delivered to Participant (including through electronic delivery to a brokerage account). After such issuance, recordation, and delivery, Participant will have all the rights of a stockholder of the Company with respect to voting such Shares and receipt of dividends and distributions on such Shares.
- 8. No Guarantee of Continued Service. PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF SHARES PURSUANT TO THE VESTING SCHEDULE HEREOF IS EARNED ONLY BY CONTINUING AS A SERVICE PROVIDER, WHICH UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW IS AT THE WILL OF THE COMPANY (OR THE SERVICE RECIPIENT) AND NOT THROUGH THE ACT OF BEING HIRED, BEING GRANTED THIS OPTION OR ACQUIRING SHARES HEREUNDER. PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THIS OPTION AGREEMENT, THE TRANSACTIONS CONTEMPLATED HEREUNDER AND THE VESTING SCHEDULE SET FORTH HEREIN DO NOT CONSTITUTE AN EXPRESS OR IMPLIED PROMISE OF CONTINUED ENGAGEMENT AS A SERVICE PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND WILL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE COMPANY (OR THE SERVICE RECIPIENT) TO TERMINATE PARTICIPANT'S RELATIONSHIP AS A SERVICE PROVIDER, SUBJECT TO APPLICABLE LAW, WHICH TERMINATION, UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW, MAY BE AT ANY TIME, WITH OR WITHOUT CAUSE.

- 9. <u>Nature of Grant</u>. In accepting the Option, Participant acknowledges, understands and agrees that:
- (a) the grant of the Option is voluntary and occasional and does not create any contractual or other right to receive future grants of options, or benefits in lieu of options, even if options have been granted in the past;
 - (b) all decisions with respect to future option or other grants, if any, will be at the sole discretion of the Company;
 - (c) Participant is voluntarily participating in the Plan;
 - (d) the Option and any Shares acquired under the Plan are not intended to replace any pension rights or compensation;
- (e) the Option and Shares acquired under the Plan and the income and value of same, are not part of normal or expected compensation for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end-of-service payments, bonuses, long-service awards, pension or retirement or welfare benefits or similar payments;
 - (f) the future value of the Shares underlying the Option is unknown, indeterminable, and cannot be predicted with certainty;
 - (g) if the underlying Shares do not increase in value, the Option will have no

value;

- (h) if Participant exercises the Option and acquires Shares, the value of such Shares may increase or decrease in value, even below the Exercise Price;
- (i) for purposes of the Option, Participant's engagement as a Service Provider will be considered terminated as of the date Participant is no longer actively providing services to the Company or any Parent or Subsidiary (regardless of the reason for such termination and whether or not later found to be invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and unless otherwise expressly provided in this Option Agreement (including by reference in the Notice of Grant to other arrangements or contracts) or determined by the Administrator, (i) Participant's right to vest in the Option under the Plan, if any, will terminate as of such date and will not be extended by any notice period (e.g., Participant's period of service would not include any contractual notice period or any period of "garden leave" or similar period mandated under employment laws in the jurisdiction where Participant is a Service Provider or Participant's employment or service agreement, if any, unless Participant is providing bona fide services during such time); and (ii) the period (if any) during which Participant may exercise the Option after such termination of Participant's engagement as a Service Provider will commence on the date Participant ceases to actively provide services and will not be extended by any notice period mandated under employment laws in the jurisdiction where Participant is employed or terms of Participant's engagement agreement, if any; the Administrator shall have the exclusive discretion to determine when Participant is no longer actively providing services for purposes of his or her Option grant (including

whether Participant may still be considered to be providing services while on a leave of absence and consistent with local law);

- (j) unless otherwise provided in the Plan or by the Copmpany in its discretion, the Option and the benefits evidenced by this Option Agreement do not create any entitlement to have the Option or any such benefits transferred to, or assumed by, another company nor to be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the Shares; and
 - (k) the following provisions apply only if Participant is providing services outside the United States:
- (i) the Option and the Shares subject to the Option are not part of normal or expected compensation or salary for any purpose;
- (ii) Participant acknowledges and agrees that no Service Recipient shall be liable for any foreign exchange rate fluctuation between Participant's local currency and the United States Dollar that may affect the value of the Option or of any amounts due to Participant pursuant to the exercise of the Option or the subsequent sale of any Shares acquired upon exercise; and
- (iii) no claim or entitlement to compensation or damages shall arise from forfeiture of the Option resulting from the termination of Participant's engagement as a Service Provider (for any reason whatsoever, whether or not later found to be invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and in consideration of the grant of the Option to which Participant is otherwise not entitled, Participant irrevocably agrees never to institute any claim against any Service Recipient, waives his or her ability, if any, to bring any such claim, and releases each Service Recipient from any such claim; if, notwithstanding the foregoing, any such claim is allowed by a court of competent jurisdiction, then, by participating in the Plan, Participant shall be deemed irrevocably to have agreed not to pursue such claim and agrees to execute any and all documents necessary to request dismissal or withdrawal of such claim.
- 10. <u>No Advice Regarding Grant</u>. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding Participant's participation in the Plan, or Participant's acquisition or sale of the underlying Shares. Participant is hereby advised to consult with his or her own personal tax, legal and financial advisors regarding his or her participation in the Plan before taking any action related to the Plan.
- 11. <u>Data Privacy</u>. Participant hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of Participant's personal data as described in this Option Agreement and any other Option grant materials by and among, as applicable, the Employer or other Service Recipient, the Company and any Parent or Subsidiary for the exclusive purpose of implementing, administering and managing Participant's participation in the Plan.

Participant understands that the Company and the Employer may hold certain personal information about Participant, including, but not limited to, Participant's name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Options or any other entitlement to Shares awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor ("Data"), for the exclusive purpose of implementing, administering and managing the Plan.

Participant understands that Data will be transferred to a stock plan service provider as may be selected by the Company in the future, which is assisting the Company with the implementation, administration, and management of the Plan. Participant understands that the recipients of the Data may be located in the United States or elsewhere, and that the recipient's country of operation (e.g., the United States) may have different data privacy laws and protections than Participant's country. Participant understands that if he or she resides outside the United States, he or she may request a list with the names and addresses of any potential recipients of the Data by contacting his or her local human resources representative. Participant authorizes the Company and any other possible recipients which may assist the Company (presently or in the future) with implementing, administering and managing the Plan to receive, possess, use, retain and transfer the Data, in sole purposes form, or other for the implementina. administering and managing Participant's participation in the Plan. Participant understands that Data will be held only as long as is necessary to implement, administer and manage Participant's participation in the Plan. Participant understands that if he or she resides outside the United States, he or she may, at any time, view Data, request additional information about the storage and processing of Data, require any necessary amendments to Data or refuse or withdraw the consents herein, in any case without cost, by contacting in writing his or her local human resources representative. Further, Participant understands that he or she is providing the consents herein on a purely voluntary basis. If Participant does not consent, or if Participant later seeks to revoke his or her consent, his or her engagement as a Service Provider and career with the Employer will not be adversely affected; the only adverse consequence of refusing or withdrawing Participant's consent is that the Company would not be able to grant Participant Options or other equity awards or administer or maintain such awards. Therefore, Participant understands that refusing or withdrawing his or her consent may affect Participant's ability to participate in the Plan. For more information on the consequences of Participant's refusal to consent or withdrawal of consent, Participant understands that he or she may contact his or her local human resources representative.

- 12. <u>Address for Notices</u>. Any notice to be given to the Company under the terms of this Option Agreement will be addressed to the Company at Silk Road Medical, Inc., 1213 Innsbruck Dr., Sunnyvale, CA 94089, or at such other address as the Company may hereafter designate in writing.
- 13. <u>Non-Transferability of Option</u>. This Option may not be transferred in any manner otherwise than by will or by the laws of descent or distribution and may be exercised during the lifetime of Participant only by Participant.

- 14. <u>Successors and Assigns</u>. The Company may assign any of its rights under this Option Agreement to single or multiple assignees, and this Option Agreement shall inure to the benefit of the successors and assigns of the Company. Subject to the restrictions on transfer herein set forth, this Option Agreement shall be binding upon Participant and his or her heirs, executors, administrators, successors and assigns. The rights and obligations of Participant under this Option Agreement may only be assigned with the prior written consent of the Company.
- Additional Conditions to Issuance of Stock. If at any time the Company will determine, in its discretion, that the listing, registration, qualification or rule compliance of the Shares upon any securities exchange or under any state, federal or non-U.S. law, the tax code and related regulations or under the rulings or regulations of the United States Securities and Exchange Commission or any other governmental regulatory body or the clearance, consent or approval of the United States Securities and Exchange Commission or any other governmental regulatory authority is necessary or desirable as a condition to the purchase by, or issuance of Shares, to Participant (or his or her estate) hereunder, purchase until or issuance will not occur unless and registration, qualification, rule compliance, clearance, consent or approval will have been completed, effected or obtained free of any conditions not acceptable to the Company. Subject to the terms of the Option Agreement and the Plan, the Company shall not be required to issue any certificate or certificates for Shares hereunder prior to the lapse of such reasonable period of time following the date of exercise of the Option as the Administrator may establish from time to time for reasons of administrative convenience.
- 16. <u>Language</u>. If Participant has received this Option Agreement or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.
- 17. <u>Interpretation</u>. The Administrator will have the power to interpret the Plan and this Option Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited to, the determination of whether or not any Shares subject to the Option have vested). All actions taken and all interpretations and determinations made by the Administrator in good faith will be final and binding upon Participant, the Company and all other interested persons. Neither the Administrator nor any person acting on behalf of the Administrator will be personally liable for any action, determination, or interpretation made in good faith with respect to the Plan or this Option Agreement.
- 18. <u>Electronic Delivery and Acceptance</u>. The Company may, in its sole discretion, decide to deliver any documents related to the Option awarded under the Plan or future options that may be awarded under the Plan by electronic means or request Participant's consent to participate in the Plan by electronic means. Participant hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through any on-line or electronic system established and maintained by the Company or a third party designated by the Company.
- 19. <u>Captions</u>. Captions provided herein are for convenience only and are not to serve as a basis for interpretation or construction of this Option Agreement.

- 20. <u>Agreement Severable</u>. In the event that any provision in this Option Agreement will be held invalid or unenforceable, such provision will be severable from, and such invalidity or unenforceability will not be construed to have any effect on, the remaining provisions of this Option Agreement.
- 21. <u>Amendment, Suspension or Termination of the Plan</u>. By accepting this Option, Participant expressly warrants that he or she has received an Option under the Plan, and has received, read, and understood a description of the Plan. Participant understands that the Plan is discretionary in nature and may be amended, suspended or terminated by the Company at any time.
- 22. <u>Governing Law and Venue</u>. This Option Agreement will be governed by the laws of California, without giving effect to the conflict of law principles thereof. For purposes of litigating any dispute that arises under this Option or this Option Agreement, the parties hereby submit to and consent to the jurisdiction of the State of California, and agree that such litigation will be conducted in the courts of Santa Clara County, California, or the United States federal courts for the Northern District of California, and no other courts, where this Option is made and/or to be performed.
- 23. Country Addendum. Notwithstanding any provisions in this Option Agreement, this Option shall be subject to any special terms and conditions set forth in an appendix (if any) to this Option Agreement for any country whose laws are applicable to Participant and this Option (as determined by the Administrator in its sole discretion) (the "Country Addendum"). Moreover, if Participant relocates to one of the countries included in the Country Addendum (if any), the special terms and conditions for such country will apply to Participant, to the extent the Company conditions that the application of such terms and is necessary advisable or administrative reasons. The Country Addendum (if any) constitutes a part of this Option Agreement.
- 24. <u>Modifications to the Agreement</u>. This Option Agreement constitutes the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Option Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Option Agreement or the Plan can be made only in an express written contract executed by a duly authorized officer of the Company. Notwithstanding anything to the contrary in the Plan or this Option Agreement, the Company reserves the right to revise this Option Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Code Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Section 409A of the Code in connection with the Option.
- Waiver. Either party's failure to enforce any provision provisions of this No or Option Agreement shall not in any way be construed as a waiver of any such provision or provisions, nor prevent that party from thereafter enforcing each and every other provision of this Option Agreement. The rights granted both parties herein are cumulative and shall not constitute a waiver of either party's right to assert all other legal remedies available to it under the circumstances.
- 26. <u>Tax Consequences</u>. Participant has reviewed with his or her own tax advisors the U.S. federal, state, local and non-U.S. tax consequences of this investment and the transactions contemplated by this Option Agreement. With respect to such matters, Participant relies solely on

such advisors and not on any statements or representations of the Company or any of its agents, written or oral. Participant understands that Participant (and not the Company) shall be responsible for Participant's own tax liability that may arise as a result of this investment or the transactions contemplated by this Option Agreement.

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SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN STOCK OPTION AGREEMENT COUNTRY ADDENDUM

TERMS AND CONDITIONS

additional This Country Addendum includes terms and conditions that govern the Option granted Participant under the Plan if Participant works in one of the countries listed below. If Participant is a citizen or resident of a country (or is considered as such for local law purposes) other than the one in which he or she is currently working or if Participant relocates to another country after receiving the Option, the Company will, in its discretion, determine the extent to which the terms and conditions contained herein will be applicable to Participant.

Certain capitalized terms used but not defined in this Country Addendum shall have the meanings set forth in the Plan, and/or the Stock Option Agreement to which this Country Addendum is attached.

NOTIFICATIONS

This Country Addendum also includes notifications relating to exchange control and other issues of which Participant should be aware with respect to his or her participation in the Plan. The information is based on the exchange control, securities and other laws in effect in the countries listed in this Country Addendum, as of . Such laws are often complex and change frequently. As a result, the Company strongly recommends that Participant not rely on the notifications herein as the only source of information relating to the consequences of his or her participation in the Plan because the information may be outdated when Participant exercises the Option or sells Shares acquired under the Plan.

In addition, the notifications are general in nature and may not apply to Participant's particular situation, and the Company is not in a position to assure Participant of any particular result. Accordingly, Participant is advised to seek appropriate professional advice as to how the relevant laws in Participant's country may apply to Participant's situation.

Finally, if Participant is a citizen or resident of a country other than the one in which Participant is currently working (or is considered as such for local law purposes) or if Participant moves to another country after the Option is granted, the information contained herein may not be applicable to Participant.

EXHIBIT B

SILK ROAD MEDICAL, INC.

2019 EQUITY INCENTIVE PLAN EXERCISE NOTICE

Silk Road Medical, Inc. 1213 Innsbruck Dr. Sunnyvale, CA 94089 Attention: Stock Administration

1. Exercise of Option. Effective as of today, , , the undersigned ("Purchaser") hereby elects to purchase Shares (the "Shares") of the Common Stock of Silk Road Medical, Inc. (the "Company") under and pursuant to the 2019 Equity Incentive Plan (the "Plan") and the Stock Option Agreement, dated and including the Notice of Grant, the Terms and Conditions of Stock Option Grant, and exhibits attached thereto (the "Option Agreement"). The purchase price for the Shares will be \$, as required by the Option Agreement.

- 2. <u>Delivery of Payment</u>. Purchaser herewith delivers to the Company the full purchase price of the Shares and any Tax Obligations (as defined in Section 6(a) of the Option Agreement) to be paid in connection with the exercise of the Option.
- 3. <u>Representations of Purchaser</u>. Purchaser acknowledges that Purchaser has received, read and understood the Plan and the Option Agreement and agrees to abide by and be bound by their terms and conditions.
- 4. <u>Rights as Stockholder</u>. Until the issuance (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company) of the Shares, no right to vote or receive dividends or any other rights as a stockholder will exist with respect to the Shares subject to the Option, notwithstanding the exercise of the Option. The Shares so acquired will be issued to Purchaser as soon as practicable after exercise of the Option. No adjustment will be made for a dividend or other right for which the record date is prior to the date of issuance, except as provided in Section 14 of the Plan.
- 5. <u>Tax Consultation</u>. Purchaser understands that Purchaser may suffer adverse tax consequences as a result of Purchaser's purchase or disposition of the Shares. Purchaser represents that Purchaser has consulted with any tax consultants Purchaser deems advisable in connection with the purchase or disposition of the Shares and that Purchaser is not relying on the Company for any tax advice.

Submitted by:	Accepted by:	
PURCHASER	SILK ROAD MEDICAL, INC.	
Signature	Signature	
Print Name	Print Name	
Address	Title	
	Date Received	
2-		

6. <u>Entire Agreement; Governing Law.</u> The Plan and Option Agreement are incorporated herein by reference. This Exercise Notice, the Plan and the Option Agreement constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and Purchaser with respect to the subject matter hereof, and may not be modified adversely to the Purchaser's interest except by means of a writing signed by the Company and Purchaser. This Option Agreement is governed by

the internal substantive laws, but not the choice of law rules, of California.

SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN RESTRICTED STOCK UNIT AGREEMENT

NOTICE OF RESTRICTED STOCK UNIT GRANT

Unless otherwise defined herein, the terms defined in the Silk Road Medical, Inc. 2019 Equity Incentive Plan (the "Plan") will have the same defined meanings in this Restricted Stock Unit Agreement, which includes the Notice of Restricted Stock Unit Grant (the "Notice of Grant"), the Terms and Conditions of Restricted Stock Unit Grant attached hereto as Exhibit A, and all other exhibits and appendices attached hereto (all together, the "Award Agreement").

Participant:

Address:

The undersigned Participant has been granted the right to receive an Award of Restricted Stock Units, subject to the terms and conditions of the Plan and this Award Agreement, as follows:

Grant Number:

Date of Grant:

Vesting Commencement Date:

Number of Restricted Stock Units:

Vesting Schedule:

Subject to any acceleration provisions contained in the Plan or set forth below, the Restricted Stock Units will vest in accordance with the following schedule:

[Twenty-five percent (25%) of the Restricted Stock Units will vest on the one (1) year anniversary of the Vesting Commencement Date, with the balance to vest annually over the following three years until all shares subject to the award are fully vested on the fourth anniversary of the Vesting Commencement Date, subject to Participant continuing to be a Service Provider through each such date.]

In the event Participant ceases to be a Service Provider for any or no reason before Participant vests in the Restricted Stock Units, the Restricted Stock Units and Participant's right to acquire any Shares hereunder will immediately terminate.

By Participant's signature and the signature of the representative of Silk Road Medical, Inc. (the "Company") below, Participant and the Company agree that this Award of Restricted Stock Units is granted under and governed by the terms and conditions of the Plan and this Award Agreement, including the Terms and Conditions of Restricted Stock Unit Grant. attached hereto all of which are made a part of this document. Participant acknowledges receipt of the Plan. Participant has reviewed the Plan and this Award Agreement in their entirety, has had an

opportunity to ob	otain the advice of counsel prior	to executing this Award Ag	greement, and fully understan	ds all provisions of the F	lan and this
Award	Agreement.	Participant	hereby	agrees	to
accept as binding	, conclusive, and final all decisio	ns or interpretations of the A	dministrator upon any questio	ns relating to the Plan an	d the Award
Agreement. Participant further agrees to notify the Company upon any change in the residence address indicated below.					

By accepting this Award Agreement, Participant expressly consents to the sale of Shares to cover the Tax Withholding Obligations (as defined in the Terms and Conditions of Restricted Stock Unit Grant) arising from the Restricted Stock Units and any associated broker or other fees and agrees and acknowledges that Participant may not satisfy them by any means other than such sale of Shares, unless required to do so by the Administrator or pursuant to the Administrator's express written consent.

PARTICIPANT	SILK ROAD MEDICAL, INC.		
Signature	Signature		
Print Name	Print Name		
	Title		
Address:			

EXHIBIT A

TERMS AND CONDITIONS OF RESTRICTED STOCK UNIT GRANT

- 1. <u>Grant of Restricted Stock Units</u>. The Company hereby grants to the individual (the "Participant") named in the Notice of Grant of Restricted Stock Units of this Award Agreement (the "Notice of Grant") under the Plan an Award of Restricted Stock Units, subject to all of the terms and conditions in this Award Agreement and the Plan, which is incorporated herein by reference. Subject to Section 19(c) of the Plan, in the event of a conflict between the terms and conditions of the Plan and this Award Agreement, the terms and conditions of the Plan shall prevail.
- 2. <u>Company's Obligation to Pay.</u> Each Restricted Stock Unit represents the right to receive a Share on the date it vests. Unless and until the Restricted Stock Units will have vested in the manner set forth in Section 3 or 4, Participant will have no right to payment of any such Restricted Stock Units. Prior to actual payment of any vested Restricted Stock Units, such Restricted Stock Unit will represent an unsecured obligation of the Company, payable (if at all) only from the general assets of the Company.
- 3. <u>Vesting Schedule</u>. Except as provided in Section 4, and subject to Section 5, the Restricted Stock Units awarded by this Award Agreement will vest in accordance with the vesting schedule set forth in the Notice of Grant, subject to Participant continuing to be a Service Provider through each applicable vesting date.

4. Payment after Vesting.

(a) <u>General Rule</u>. Subject to Section 8, any Restricted Stock Units that vest will be paid to Participant (or in the event of Participant's death, to his or her properly designated beneficiary or estate) in whole Shares. Subject to the provisions of Section 4(b), such vested Restricted Stock Units shall be paid in whole Shares as soon as practicable after vesting, but in each such case within sixty (60) days following the vesting date. In no event will Participant be permitted, directly or indirectly, to specify the taxable year of payment of any Restricted Stock Units payable under this Award Agreement.

(b) Acceleration.

- (i) <u>Discretionary Acceleration</u>. The Administrator, in its discretion, may accelerate the vesting of the balance, or some lesser portion of the balance, of the unvested Restricted Stock Units at any time, subject to the terms of the Plan. If so accelerated, such Restricted Stock Units will be considered as having vested as of the date specified by the Administrator. If Participant is a U.S. taxpayer, the payment of Shares vesting pursuant to this Section 4(b) shall in all cases be paid at a time or in a manner that is exempt from, or complies with, Section 409A. The prior sentence may be superseded in a future agreement or amendment to this Award Agreement only by direct and specific reference to such sentence.
- (ii) Notwithstanding anything in the Plan or this Award Agreement or any other agreement (whether entered into before, on or after the Date of Grant), if the vesting of the balance, or some lesser portion of the balance, of the Restricted Stock Units is accelerated in

connection with Participant's termination as a Service Provider (provided that such termination is a "separation from service" within the meaning of Section 409A, as determined by the Company), other than due to Participant's death, and if (x) Participant is a U.S. taxpayer and a "specified employee" within the meaning of Section 409A at the time of such termination as a Service Provider and (y) the payment of such accelerated Restricted Stock Units will result in the imposition of additional tax under Section 409A if paid to Participant on or within the six (6) month period following Participant's termination as a Service Provider, then the payment of such accelerated Restricted Stock Units will not be made until the date six (6) months and one (1) day following the date of Participant's termination as a Service Provider, unless Participant dies following his or her termination as a Service Provider, in which case, the Restricted Stock Units will be paid in Shares to Participant's estate as soon as practicable following his or her death.

- (c) Section 409A. It is the intent of this Award Agreement that it and all payments and benefits to U.S. taxpayers hereunder be exempt from, or comply with, the requirements of Section 409A so that none of the Restricted Stock Units provided under this Award Agreement or Shares issuable thereunder will be subject to the additional tax imposed under Section 409A, and any ambiguities herein will be interpreted to be so exempt or so comply. Each payment payable under this Award Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2). However, in no event will the Company reimburse Participant, or be otherwise responsible for, any taxes or costs that may be imposed on Participant as a result of Section 409A. For purposes of this Award Agreement, "Section 409A" means Section 409A of the Code, and any final Treasury Regulations and Internal Revenue Service guidance thereunder, as each may be amended from time to time.
- 5. <u>Forfeiture Upon Termination as a Service Provider</u>. Notwithstanding any contrary provision of this Award Agreement, if Participant ceases to be a Service Provider for any or no reason, the then-unvested Restricted Stock Units awarded by this Award Agreement will thereupon be forfeited at no cost to the Company and Participant will have no further rights thereunder.
- 6. <u>Tax Consequences</u>. Participant has reviewed with his or her own tax advisors the U.S. federal, state, local and non-U.S. tax consequences of this investment and the transactions contemplated by this Award Agreement. With respect to such matters, Participant relies solely on such advisors and not on any statements or representations of the Company or any of its agents, written or oral. Participant understands that Participant (and not the Company) shall be responsible for Participant's own tax liability that may arise as a result of this investment or the transactions contemplated by this Award Agreement.
- 7. <u>Death of Participant</u>. Any distribution or delivery to be made to Participant under this Award Agreement will, if Participant is then deceased, be made to Participant's designated beneficiary, or if no beneficiary survives Participant, the administrator or executor of Participant's estate. Any such transferee must furnish the Company with (a) written notice of his or her status as transferee, and (b) evidence satisfactory to the Company to establish the validity of the transfer and compliance with any laws or regulations pertaining to said transfer.

8. <u>Tax Obligations</u>

- Responsibility for Taxes. Participant acknowledges that, regardless of any action taken by the Company or, if different, Participant's employer (the "Employer") or Parent or Subsidiary to which Participant is providing services (together, the Company, Employer and/or Parent or Subsidiary to which the Participant is providing services, the "Service Recipient"), the ultimate liability for any tax and/or social insurance liability obligations and requirements in connection with the Restricted Stock Units, including, without limitation, (i) all federal, state, and local taxes (including the Participant's Federal Insurance Contributions Act (FICA) obligation) that are required to be withheld by the Company or the Employer or other payment of tax-related items related to Participant's participation in the Plan and legally applicable to Participant, (ii) the Participant's and, to the extent required by the Company (or Service Recipient), the Company's (or Service Recipient's) fringe benefit tax liability, if any, associated with the grant, vesting, or settlement of the Restricted Stock Units or sale of Shares, and (iii) any other Company (or Service Recipient) taxes the responsibility for which the Participant has, or has agreed to bear, with respect to the Restricted Stock Units (or settlement thereof or issuance of Shares thereunder) (collectively, the "Tax Obligations"), is and remains Participant's responsibility and may exceed the amount actually withheld by the Company or the Service Recipient. Participant further acknowledges that the Company and/or the Service Recipient (A) make no representations or undertakings regarding the treatment of any Tax Obligations in connection with any aspect of the Restricted Stock Units, including, but not limited to, the grant, vesting or settlement of the Restricted Stock Units, the subsequent sale of Shares pursuant such settlement and the receipt of any to other distributions, and (B) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Restricted Stock Units to reduce or eliminate Participant's liability for Tax Obligations or achieve any particular tax result. Further, if Participant is subject to Tax Obligations in more than one jurisdiction between the Date of Grant and the date of any relevant taxable or tax withholding event, as applicable, Participant acknowledges that the Company and/or the Service Recipient (or former employer, as applicable) may be required to withhold or account for Tax Obligations in more than one jurisdiction. If Participant fails to make satisfactory arrangements for the payment of any required Tax Obligations hereunder at the time of the applicable taxable event, Participant acknowledges and agrees that the Company may refuse to issue or deliver the Shares.
- (b) Tax Withholding and Default Sell-to-Cover Method of Tax Withholding. When Shares are issued as payment for vested Restricted Stock Units, Participant generally will recognize immediate U.S. taxable income if Participant is a U.S. taxpayer. If Participant is a non-U.S. taxpayer, Participant will be subject to applicable taxes in his or her jurisdiction. Subject to Section 8(c), the minimum amount of Tax Obligations which the Company determines must be withheld with respect to this Award ("Tax Withholding Obligation") will be satisfied by Shares being sold on Participant's behalf at the prevailing market price pursuant to such procedures as the Company may specify from time to time, including through a broker-assisted arrangement (it being understood that the Shares to be sold must have vested pursuant to the terms of this Award Agreement and the Plan) (the "Sell-to-Cover Method"). The proceeds from the Sell-to-Cover Method will be used to satisfy Participant's Tax Withholding Obligation arising with respect to this Award. In addition to Shares sold to satisfy the Tax Withholding Obligation, additional Shares will be sold to satisfy any associated broker or other fees. Only whole Shares will be sold through the Sell-to-Cover Method to satisfy any Tax Withholding Obligation and any associated broker or other fees. Any proceeds from the sale of Shares in excess of the Tax Withholding Obligation and any

associated broker or other fees generated through the Sell-to-Cover Method will be paid to Participant in accordance with procedures the Company may specify from time to time. By accepting this Award, Participant expressly consents to the sale of Shares to cover the Tax Withholding Obligation (and any associated broker or other fees) through the Sell-to-Cover Method and agrees and acknowledges that Participant may not satisfy them by any means other than such sale of Shares, unless required to do so by the Administrator or pursuant to the Administrator's express written consent.

- (c) Administrator Discretion. Notwithstanding the foregoing Sections 8(a) and 8(b), if the Administrator determines it is in the best interests of the Company for Participant to satisfy Participant's Tax Withholding Obligation by a method other than through the default Sell-to-Cover Method described in Section 8(b), it may permit or require Participant to satisfy Participant's Tax Withholding Obligation, in whole or in part (without limitation), if permissible by Applicable Laws, by (i) paying cash, (ii) withholding the amount of such Tax Withholding Obligation from Participant's wages or other cash compensation paid to Participant by the Company and/or the Service Recipient, (iii) delivering to the Company Shares that Participant owns and that have vested with a fair market value equal to the amount required to be withheld (or such greater amount up to the maximum statutory rate applicable to the Participant if permitted by the Administrator and provided such greater amount would not result in adverse financial accounting consequences to the Company as determined by the Administrator), (iv) by having the Company withhold otherwise deliverable Shares having a fair market value equal to the amount required to be withheld (or such greater amount up to the maximum statutory rate applicable to the Participant if permitted by the Administrator and provided such greater amount would not result in adverse financial accounting consequences to the Company as determined by the Administrator) or (v) such other means as the Administrator deems appropriate.
- (d) <u>Company's Obligation to Deliver Shares</u>. For clarification purposes, in no event will the Company issue Participant any Shares unless and until arrangements satisfactory to the Administrator have been made for the payment of Participant's Tax Withholding Obligation. If Participant fails to make satisfactory arrangements for the payment of such Tax Withholding Obligations hereunder at the time any applicable Restricted Stock Units otherwise are scheduled to vest pursuant to Sections 3 or 4 or Participant's Tax Withholding Obligations otherwise become due, Participant will permanently forfeit such Restricted Stock Units to which Participant's Tax Withholding Obligation relates and any right to receive Shares thereunder and such Restricted Stock Units will be returned to the Company at no cost to the Company. Participant acknowledges and agrees that the Company may refuse to issue or deliver the Shares if such Tax Obligations are not delivered at the time they are due.
- 9. <u>Rights as Stockholder</u>. Neither Participant nor any person claiming under or through Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares deliverable hereunder unless and until certificates representing such Shares (which may be in book entry form) will have been issued, recorded on the records of the Company or its transfer agents or registrars, and delivered to Participant (including through electronic delivery to a brokerage account). After such issuance, recordation, and delivery, Participant will have all the rights of a stockholder of the Company with respect to voting such Shares and receipt of dividends and distributions on such Shares.

- 10. No Guarantee of Continued Service. PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF THE RESTRICTED STOCK UNITS PURSUANT TO THE VESTING SCHEDULE HEREOF IS EARNED ONLY BY CONTINUING AS A SERVICE PROVIDER, WHICH UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW IS AT THE WILL OF THE COMPANY (OR THE SERVICE RECIPIENT) AND NOT THROUGH THE ACT OF BEING HIRED, BEING GRANTED THIS RESTRICTED STOCK UNIT AWARD OR ACQUIRING SHARES HEREUNDER. PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THIS AWARD AGREEMENT, THE TRANSACTIONS CONTEMPLATED HEREUNDER AND THE VESTING SCHEDULE SET FORTH HEREIN DO NOT CONSTITUTE AN EXPRESS OR IMPLIED PROMISE OF CONTINUED ENGAGEMENT AS A SERVICE PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND SHALL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE COMPANY (OR THE SERVICE RECIPIENT) TO TERMINATE PARTICIPANT'S RELATIONSHIP AS A SERVICE PROVIDER, SUBJECT TO APPLICABLE LAW, WHICH TERMINATION, UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW, MAY BE AT ANY TIME, WITH OR WITHOUT CAUSE.
- 11. <u>Grant is Not Transferable</u>. Except to the limited extent provided in Section 7, this grant and the rights and privileges conferred hereby will not be transferred, assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and will not be subject to sale under execution, attachment or similar process. Upon any attempt to transfer, assign, pledge, hypothecate or otherwise dispose of this grant, or any right or privilege conferred hereby, or upon any attempted sale under any execution, attachment or similar process, this grant and the rights and privileges conferred hereby immediately will become null and void.
 - 12. <u>Nature of Grant</u>. In accepting the grant, Participant acknowledges, understands, and agrees that:
- (a) the grant of the Restricted Stock Units is voluntary and occasional and does not create any contractual or other right to receive future grants of Restricted Stock Units, or benefits in lieu of Restricted Stock Units, even if Restricted Stock Units have been granted in the past;
- (b) all decisions with respect to future Restricted Stock Units or other grants, if any, will be at the sole discretion of the Company;
 - (c) Participant is voluntarily participating in the Plan;
- (d) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not intended to replace any pension rights or compensation;
- (e) the Restricted Stock Units and the Shares subject to the Restricted Stock Units, and the income and value of same, are not part of normal or expected compensation for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end-of-service payments, bonuses, long-service awards, pension or retirement or welfare benefits or similar payments;
 - (f) the future value of the underlying Shares is unknown, indeterminable and cannot be predicted;

- for purposes of the Restricted Stock Units, Participant's status as a Service Provider will be considered terminated as of (g) the date Participant is no longer actively providing services to the Company or any Parent or Subsidiary (regardless of the reason for such termination and whether or not later to be found invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and unless otherwise expressly provided in this Award Agreement (including by reference in the Notice of Grant to other arrangements or contracts) or determined by the Administrator, Participant's right to vest in the Restricted Stock Units under the Plan, if any, will terminate as of such date and will not be extended by any notice period (e.g., Participant's period of service would not include any contractual notice period or any period of "garden leave" or similar period mandated under employment laws the jurisdiction where **Participant** is Service Provider in a or the terms of Participant's employment or service agreement, if any, unless Participant is providing bona fide services during such time); the Administrator shall have the exclusive discretion to determine when Participant is no longer actively providing services for purposes of the Restricted Stock Units grant (including whether Participant may still be considered to be providing services while on a leave of absence and consistent with local law);
- (h) unless otherwise provided in the Plan or by the Company in its discretion, the Restricted Stock Units and the benefits evidenced by this Award Agreement do not create any entitlement to have the Restricted Stock Units or any such benefits transferred to, or assumed by, another company nor be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the Shares; and
 - (i) the following provisions apply only if Participant is providing services outside the United States:
- (i) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not part of normal or expected compensation or salary for any purpose;
- (ii) Participant acknowledges and agrees that none of the Company, the Employer or any Parent or Subsidiary shall be liable for any foreign exchange rate fluctuation between Participant's local currency and the United States Dollar that may affect the value of the Restricted Stock Units or of any amounts due to Participant pursuant to the settlement of the Restricted Stock Units or the subsequent sale of any Shares acquired upon settlement; and
- (iii) no claim or entitlement to compensation or damages shall arise from forfeiture of the Restricted Stock Units resulting from the termination of Participant's status as a Service Provider (for any reason whatsoever whether or not later found to be invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and in consideration of the grant of the Restricted Stock Units to which Participant is otherwise not entitled, Participant irrevocably agrees never to institute any claim against the Company, any Parent or Subsidiary or the Service Recipient, waives his or her ability, if any, to bring any such claim, and releases the Company, any Parent or Subsidiary and the Service Recipient from any such claim; if, notwithstanding the foregoing, any such claim is allowed by a court of competent jurisdiction, then, by participating in the Plan, Participant shall be deemed irrevocably to have agreed not to pursue such claim and agrees to execute any and all documents necessary to request dismissal or withdrawal of such claim.

- 13. <u>No Advice Regarding Grant</u>. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding Participant's participation in the Plan, or Participant's acquisition or sale of the underlying Shares. Participant is hereby advised to consult with his or her own personal tax, legal and financial advisors regarding his or her participation in the Plan before taking any action related to the Plan.
- 14. <u>Data Privacy.</u> Participant hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of Participant's personal data as described in this Award Agreement and any other Restricted Stock Unit grant materials by and among, as applicable, the Employer or other Service Recipient, the Company and any Parent or Subsidiary for the exclusive purpose of implementing, administering and managing Participant's participation in the Plan.

Participant understands that the Company and the Service Recipient may hold certain personal information about Participant, including, but not limited to, Participant's name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Restricted Stock Units or any other entitlement to Shares awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor ("Data"), for the exclusive purpose of implementing, administering and managing the Plan.

Participant understands that Data will be transferred to a stock plan service provider as may be selected by the Company in the future, which is assisting the Company with the implementation, administration, and management of the Plan. Participant understands that the recipients of the Data may be located in the United States or elsewhere, and that the recipients' country of operation (e.g., the United States) may have different data privacy laws and protections than Participant's country. Participant understands that if he or she resides outside the United States, he or she may request a list with the names and addresses of any potential recipients of the Data by contacting his or her local human resources representative. Participant authorizes the Company, any stock plan service provider selected by the Company and any other possible recipients which may assist the Company (presently or in the future) with implementing, administering and managing the Plan to receive, possess, use, retain and transfer the Data, in electronic or other form, for the sole purpose of implementing, administering and managing his or her participation in the Plan. Participant understands that Data will be held only as long as is necessary to implement, administer and manage Participant's participation in the Plan. Participant understands if he or she resides outside the United States, he or she may, at any time, view Data, require and information about the storage and processing of Data, require any necessary amendments to Data or refuse or withdraw the consents herein, in any case without cost, by contacting in writing his or her local human resources representative. Further, Participant understands that he or she is providing the consents herein on a purely voluntary basis. If Participant does not consent, or if Participant later seeks to revoke his or her consent, his or her status as a Service Provider and career with the Service Recipient will not be adversely affected; the only adverse consequence of refusing or withdrawing Participant's consent is that the Company would not be able to grant Participant Restricted Stock Units or other equity awards or administer or maintain such awards. Therefore, Participant understands that refusing or withdrawing his or her consent may affect Participant's ability to participate in the Plan. For more information on the consequences of Participant's refusal to consent or withdrawal of

consent, Participant understands that he or she may contact his or her local human resources representative.

- 15. <u>Address for Notices</u>. Any notice to be given to the Company under the terms of this Award Agreement will be addressed to the Company at Silk Road Medical, Inc., 1213 Innsbruck Dr., Sunnyvale, CA 94089, or at such other address as the Company may hereafter designate in writing.
- 16. <u>Electronic Delivery and Acceptance</u>. The Company may, in its sole discretion, decide to deliver any documents related to the Restricted Stock Units awarded under the Plan or future Restricted Stock Units that may be awarded under the Plan by electronic means or request Participant's consent to participate in the Plan by electronic means. Participant hereby consents to receive such documents by electronic delivery and agrees to participate in the Plan through any on- line or electronic system established and maintained by the Company or a third party designated by the Company.
- 17. <u>No Waiver</u>. Either party's failure to enforce any provision or provisions of this Award Agreement shall not in any way be construed as a waiver of any such provision or provisions, nor prevent that party from thereafter enforcing each and every other provision of this Award Agreement. The rights granted both parties herein are cumulative and shall not constitute a waiver of either party's right to assert all other legal remedies available to it under the circumstances.
- 18. <u>Successors and Assigns</u>. The Company may assign any of its rights under this Award Agreement to single or multiple assignees, and this Award Agreement shall inure to the benefit of the successors and assigns of the Company. Subject to the restrictions on transfer herein set forth, this Award Agreement shall be binding upon Participant and his or her heirs, executors, administrators, successors and assigns. The rights and obligations of Participant under this Award Agreement may only be assigned with the prior written consent of the Company.
- 19. Additional Conditions to Issuance of Stock. If at any time the Company will determine, in its discretion, that the listing, registration, qualification or rule compliance of the Shares upon any securities exchange or under any state, federal or non-U.S. law, the tax code and related regulations or under the rulings or regulations of the United States Securities and Exchange Commission or any other governmental regulatory body or the clearance, consent or approval of the United States Securities and Exchange Commission or any other governmental regulatory authority is necessary or desirable as a condition to the issuance of Shares to Participant (or his or her estate) hereunder, such issuance will not occur unless and until such listing, registration, qualification, rule compliance, clearance, consent or approval will have been completed, effected or obtained free of any conditions not acceptable to the Company. Subject to the terms of the Award Agreement and the Plan, the Company shall not be required to issue any certificate or certificates for Shares hereunder prior to the lapse of such reasonable period of time following the date of vesting of the Restricted Stock Units as the Administrator may establish from time to time for reasons of administrative convenience.
- 20. <u>Language</u>. If Participant has received this Award Agreement or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.

- 21. <u>Interpretation</u>. The Administrator will have the power to interpret the Plan and this Award Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited to, the determination of whether or not any Restricted Stock Units have vested). All actions taken and all interpretations and determinations made by the Administrator in good faith will be final and binding upon Participant, the Company and all other interested persons. Neither the Administrator nor any person acting on behalf of the Administrator will be personally liable for any action, determination, or interpretation made in good faith with respect to the Plan or this Award Agreement.
- 22. <u>Captions</u>. Captions provided herein are for convenience only and are not to serve as a basis for interpretation or construction of this Award Agreement.
- 23. <u>Amendment, Suspension or Termination of the Plan</u>. By accepting this Award, Participant expressly warrants that he or she has received an Award of Restricted Stock Units under the Plan, and has received, read, and understood a description of the Plan. Participant understands that the Plan is discretionary in nature and may be amended, suspended or terminated by the Company at any time.
- 24. <u>Modifications to the Award Agreement</u>. This Award Agreement constitutes the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Award Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Award Agreement or the Plan can be made only in an express written contract executed by a duly authorized officer of the Company. Notwithstanding anything to the contrary in the Plan or this Award Agreement, the Company reserves the right to revise this Award Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Section 409A in connection with this Award of Restricted Stock Units.
- 25. <u>Governing Law; Venue; Severability.</u> This Award Agreement and the Restricted Stock Units are governed by the internal substantive laws, but not the choice of law rules, of California. For purposes of litigating any dispute that arises under these Restricted Stock Units or this Award Agreement, the parties hereby submit to and consent to the jurisdiction of the State of California, and agree that such litigation will be conducted in the courts of Santa Clara County, California, or the United States federal courts for the Northern District of California, and no other courts, where this Award Agreement is made and/or to be performed. In the event that any provision hereof becomes or is declared by a court of competent jurisdiction to be illegal, unenforceable or void, this Award Agreement shall continue in full force and effect.
- 26. <u>Entire Agreement</u>. The Plan is incorporated herein by reference. The Plan and this Award Agreement (including the appendices and exhibits referenced herein) constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and Participant with respect to the subject matter hereof, and may not be modified adversely to the Participant's interest except by means of a writing signed by the Company and Participant.

27. <u>Country Addendum.</u> Notwithstanding any provisions in this Award Agreement, the Restricted Stock Unit grant shall be subject to any special terms and conditions set forth in an appendix (if any) to this Award Agreement for any country whose laws are applicable to Participant and this Award of Restricted Stock Units (as determined by the Administrator in its sole discretion) (the "Country Addendum"). Moreover, if Participant relocates to one of the countries included in the Country Addendum (if any), the special terms and conditions for such country will apply to Participant, to the extent the Company determines that the application of such terms and conditions is necessary or advisable for legal or administrative reasons. The Country Addendum constitutes part of this Award Agreement.

SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN RESTRICTED STOCK UNIT AGREEMENT COUNTRY ADDENDUM

TERMS AND CONDITIONS

This Country Addendum includes additional terms and conditions that govern the Award of Restricted Stock Units granted to Participant under the Plan if Participant works in one of the countries listed below. If Participant is a citizen or resident of a country (or is considered as such for local law purposes) other than the one in which he or she is currently working or if Participant relocates to another country after receiving the Award of Restricted Stock Units, the Company will, in its discretion, determine the extent to which the terms and conditions contained herein will be applicable to Participant.

Certain capitalized terms used but not defined in this Country Addendum shall have the meanings set forth in the Plan, and/or the Restricted Stock Unit Agreement to which this Country Addendum is attached.

NOTIFICATIONS

This Country Addendum also includes notifications relating to exchange control and other issues of which Participant should be aware with respect to his or her participation in the Plan. The information is based on the exchange control, securities and other laws in effect in the countries listed in this Country Addendum, as of [DATE]. Such laws are often complex and change frequently. As a result, the Company strongly recommends that Participant not rely on the notifications herein as the only source of information relating to the consequences of his or her participation in the Plan because the information may be outdated when Participant vests in the Restricted Stock Units and acquires Shares, or when Participant subsequently sell Shares acquired under the Plan.

In addition, the notifications are general in nature and may not apply to Participant's particular situation, and the Company is not in a position to assure Participant of any particular result. Accordingly, Participant is advised to seek appropriate professional advice as to how the relevant laws in Participant's country may apply to Participant's situation.

Finally, if Participant is a citizen or resident of a country other than the one in which Participant is currently working (or is considered as such for local law purposes) or if Participant moves to another country after receiving the Award of Restricted Stock Units, the information contained herein may not be applicable to Participant.

SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN PERFORMANCE STOCK UNIT AGREEMENT

NOTICE OF PERFORMANCE STOCK UNIT GRANT

Unless otherwise defined herein, the terms defined in the Silk Road Medical, Inc. 2019 Equity Incentive Plan (the "Plan") will have the same defined meanings in this Performance Stock Unit Agreement, which includes the Notice of Performance Stock Unit Grant (the "Notice of Grant"), the Terms and Conditions of Performance Stock Unit Grant attached hereto as Exhibit A, and all other exhibits and appendices attached hereto (all together, the "Award Agreement").

Participant:

Address:

The undersigned Participant has been granted the right to receive an Award of Restricted Stock Units, subject to the terms and conditions of the Plan and this Award Agreement, as follows:

Grant Number:

Date of Grant: Vesting Commencement

Date: Target Number of Restricted Stock Units: Maximum Number of Restricted Stock Units:

Vesting Schedule:

Subject to any acceleration provisions contained in the Plan, the Restricted Stock Units are eligible to vest only if both (a) the performance-based goals described below are achieved, and (b) the service-based requirements as described below are met.

Performance-Based Vesting Component. The actual number of Restricted Stock Units that will be eligible to vest will be determined based on achievement of the Company's Total defined Return ("TSR") the Benchmark Companies below), measured three separate versus (as as over Period"). Stock performance "Performance (each Restricted Units that eligible periods Any become after satisfaction of the applicable with respect to a Performance TSR goals Period referred to herein as the "Eligible RSUs." A specified number of Restricted Stock Units may become Eligible RSUs as a result of the attainment of TSR goals during each Performance Period (the target number of Restricted Stock Units with respect to a specific Performance Period, the "Performance Period Target RSUs").

The three Performance Periods and their applicable Performance Period Target RSUs are as follows:

Performance Period	Performance Period Target RSUs	
November 14, 2022 – November 14, 2023 (the "One Year Performance Period")	1/3 of Target Number of Restricted Stock Units	
November 14, 2022 – November 14, 2024 (the "Two Year Performance Period")	1/3 of Target Number of Restricted Stock Units	
November 14, 2022 – November 14, 2025 (the "Three Year Performance Period")	100% of Target Number of Restricted Stock Units	

TSR versus Benchmark. The number of Eligible RSUs will be determined based on the levels of achievement of TSR by the Company during the applicable Performance Periods, as compared to the TSR achieved by the companies comprising the Benchmark Companies. For purposes of this Award Agreement, the "Benchmark Companies" shall mean the following companies, provided that a company shall be removed from the list of Benchmark Companies to the extent the stock of such company is not publicly traded on an established stock exchange or national market system through the end of the applicable Performance Period:

- 1. Alphatec Holdings
- 2. AtriCure
- 3. Atrion
- 4. AxoGen
- 5. Axonics
- 6. Cardiovascular Systems
- 7. Cerus
- 8. Glaukos
- 9. Inari Medical
- 10. Inspire Medical Systems
- 11. LeMaitre Vascular
- 12. OrthoPediatrics
- 13. Outset Medical
- 14. Pulmonx
- 15. ShockWave Medical
- 16. SI-BONE
- 17. STAAR Surgical Company
- 18. Tactile Systems Technology

he TSR of the Company and the last day of the applicable TSR of the of each the Benchmark Companies companies comprising Performance Period shall be calculated for Performance The percentage of Performance Period Target RSUs with respect to a Performance Period that become

Eligible **RSUs** will be determined by the percentage derived from percentage depends on the percentile ranking of the Company's TSR in relation to the TSR of each of the Benchmark Companies. To the extent that the Company's TSR results for the applicable Performance Period fall between any levels set forth in the table below, the percentage of applicable Performance Period Target RSUs that will become Eligible RSUs with respect to such Performance Period will be determined based on TSR linear interpolation using the Company amount in the table that is greater than but closest to the Company's results and the amount in the table that is less than but closest to the Company's results, and their corresponding percentages.1

Company TSR Percentile Rank in relation to Benchmark Companies for Applicable Performance Period	Eligible RSUs as a Percentage of Performance Period Target RSUs for Applicable Performance Period
At or Above 75%	200%
70%	166.7%
65%	133.3%
60%	100%
55%	62.5%
50%	25%
Below 50%	0%

For purposes of the TSR calculations, the following rules shall apply. The beginning and ending prices for the Company's Common Stock and each stock of the Benchmark Companies shall be the average stock price during the 60 trading days ending on November 13, 2022 and the last 60 trading days of the applicable Performance Period, respectively.

All determinations regarding TSR goals shall be made by the Administrator in its sole discretion and all such determinations shall be final and binding on all parties. For the avoidance of Administrator make equitable adjustments TSR calculations doubt. may to the respect Company and each of the Benchmark Companies to account for changes in the capitalization of each such entity. Restricted Stock Units, if any, will be deemed to have become Eligible RSUs as of the date on which the Administrator has certified in writing as to the level of achievement of goals. This certification shall be made no later than 60 days following the end of the Performance Period and the Two Year Performance Period, and 15 days following the end of the Three Year Performance Period (the date of such certification with respect to a Performance Period, a "Certification Date").

Notwithstanding the foregoing, with respect to each of the One Year Performance Period and the Two Year Performance Period, the number of Eligible RSUs arising from achievement of the TSR

¹ For example, if the Company TSR Percentile Rank in relation to the Benchmark Companies for the Three Year Performance Period is 67%, then 146.66% of the applicable Performance Period Target RSUs for such Performance Period will become Eligible RSUs. This is determined by interpolating on a linear basis between the TSR Percentile Rank levels of 65% and 70% and their corresponding percentages of attainment of 133.3% and 166.7%.

goals may not result in more than 1/3 of the Target Number of Restricted Stock Units subject to this Award Agreement becoming Eligible RSUs (for the avoidance of doubt, if the Company TSR Percentile Rank is greater than 60%, only 100% of the Performance Period Target RSUs for the applicable Performance Period will become Eligible RSUs).

Notwithstanding the foregoing, with respect to the Three Year Performance Period, the number of Eligible RSUs arising from achievement of the TSR goals may not result in more than the Maximum Number of Restricted Stock Units subject to this Award Agreement becoming Eligible RSUs. The total number of Eligible RSUs arising from achievement of the Three Year Performance Period TSR goals will be reduced as required in accordance with the preceding sentence.

Any Restricted Stock Units that fail to become Eligible RSUs on the Certification Date related to the Three Year Performance Period will terminate on such Certification Date for no consideration.

Service-Based Vesting Component. In order to vest in any Eligible RSUs, Participant must remain a Service Provider through the following periods:

- 1. One Year Performance Period Two Year Performance Period: With respect **RSUs** Restricted Stock Eligible the achievement TSR Units that become pursuant to goals during the One Year Performance Period and the Two Year Performance Period, 100% of the Eligible RSUs will vest on the last day of the Three Year Performance Period (the "Performance End Date"), subject to the Participant remaining a Service Provider through the applicable vesting date.
- 2. Three Year Performance Period: With respect to Restricted Stock Units that become Eligible RSUs pursuant to the achievement of TSR goals during the Three Year Performance Period, 100% of the Eligible RSUs will vest on the applicable Certification Date, subject to the Participant remaining a Service Provider through the applicable vesting date.

Change in Control. If a Change in Control occurs while Participant is a Service Provider and before the Performance End Date, the following rules will apply:

- 1. A number of Restricted Stock Units will become Eligible RSUs as of the date of the Change in Control (the "Change in Control Date") by treating the Change in Control Date as the Performance End Date, and determining the degree of attainment of TSR goals with respect to the Three Year Performance Period based on the standard terms set forth above, provided that the ending price for the Company's Common Stock for purposes of this calculation will be equal to the Transaction Value Per Share.
- 2. 100% of the Eligible RSUs outstanding on the Change in Control Date will vest on the Change in Control Date.
- 3. Any Restricted Stock Units that fail to become Eligible RSUs in connection with a Change in Control will terminate as of the Change in Control Date for no consideration.
- 4. For purposes of this Award Agreement, "Transaction Value Per Share" means the sum of the value of all consideration that is distributable with respect to one Share (factoring

in the aggregate exercise price of outstanding stock options and warrants where such exercise price is not included in the value of consideration distributable to holders of capital stock in such Change in Control), assuming that all "milestone" or other "contingent consideration" that is eligible to be received by the holders of the Company's capital stock is deemed earned and paid out at the maximum level of achievement as of the date of such Change in Control, as such value is determined by the Board in good faith at the time of the Change in Control.

Termination of Employment. In the event Participant ceases to be a Service Provider for any or no reason before Participant vests in the right to acquire the Shares to be issued pursuant to this Award of Restricted Stock Units, the Restricted Stock Units and Participant's right to acquire any Shares hereunder will immediately terminate for no consideration, except as follows. Any Restricted Stock Units that become Eligible RSUs in accordance with the above provisions will (i) accelerate and fully vest if the Participant ceases to be a Service Provider death Disability, due to or and (ii) subject to potential accelerated vesting in accordance with the terms of any employment or severance agreement between Participant and the Company that was entered into before the Date of provided that in the event of a Change in Control, the provisions of this Award Agreement will control in all respects. However, notwithstanding any contrary provision of any such agreement, any Restricted Stock Units that have not become Eligible RSUs will not be subject to the accelerated vesting provisions of any such agreement.

[Signature Page Follows]

By Participant's signature and the signature of the representative of Silk Road Medical, Inc. (the "Company") below, Participant and the Company agree that this Award of Restricted Stock Units is granted under and governed by the terms and conditions of the Plan and this Award Agreement, including the Terms and Conditions of Performance Stock Unit Grant, attached hereto as Exhibit A, all of which are made a part of this document. Participant acknowledges receipt of a copy of the Plan.

Participant has reviewed the Plan and this Award Agreement in their entirety, has had an opportunity to obtain the advice of counsel prior to executing this Award Agreement, and fully understands all provisions of the Plan and this Award Agreement. Participant hereby agrees to accept as binding, conclusive, and final all decisions or interpretations of the Administrator upon any questions relating to the Plan and the Award Agreement. Participant further agrees to notify the Company upon any change in the residence address indicated below.

By accepting this Award Agreement, Participant expressly consents to the sale of Shares to cover the Tax Withholding Obligations (as defined in the Terms and Conditions of Performance Stock Unit Grant) arising from the Restricted Stock Units and any associated broker or other fees and agrees and acknowledges that Participant may not satisfy them by any means other than such sale of Shares, unless required to do so by the Administrator or pursuant to the Administrator's express written consent.

PARTICIPANT	SILK ROAD MEDICAL, INC.	
Signature	Signature	
Signature	Signature	
Print Name	Print Name	
	Title	
Address:		
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EXHIBIT A

TERMS AND CONDITIONS OF PERFORMANCE STOCK UNIT GRANT

- 1. <u>Grant of Restricted Stock Units</u>. The Company hereby grants to the individual (the "Participant") named in the Notice of Performance Stock Unit Grant of this Award Agreement (the "Notice of Grant") under the Plan an Award of Restricted Stock Units, subject to all of the terms and conditions in this Award Agreement and the Plan, which is incorporated herein by reference. Subject to Section 19(c) of the Plan, in the event of a conflict between the terms and conditions of the Plan and this Award Agreement, the terms and conditions of the Plan shall prevail.
- Company's Obligation to Pay. Each Restricted Stock Unit represents the right to receive a Share on the date it vests. Unless and until the Restricted Stock Units will have vested the manner set forth in Section 3 or 4, Participant will have no right to payment of any such Restricted Stock vested Restricted Stock Prior to actual payment of any Units, such Restricted Stock Units. will represent an unsecured obligation of the Company, payable (if at all) only from the general assets of the Company.
- 3. <u>Vesting Schedule</u>. Except as provided in Section 4, and subject to Section 5, the Restricted Stock Units awarded by this Award Agreement will vest in accordance with the vesting schedule set forth in the Notice of Grant, subject to Participant continuing to be a Service Provider through each applicable vesting date.

4. Payment after Vesting.

(a) <u>General Rule</u>. Subject to Section 8, any Restricted Stock Units that vest will be paid to Participant (or in the event of Participant's death, to his or her properly designated beneficiary or estate) in whole Shares. Subject to the provisions of Section 4(b), such vested Restricted Stock Units shall be paid in whole Shares as soon as practicable after vesting, but in each such case within sixty (60) days following the vesting date. In no event will Participant be permitted, directly or indirectly, to specify the taxable year of payment of any Restricted Stock Units payable under this Award Agreement.

(b) Acceleration.

Acceleration. The discretion. <u>Discretionary</u> Administrator. in its may of the balance, or some lesser Restricted accelerate the vesting portion of the balance. of the unvested Stock Units at any time, subject to the terms of the Plan. If so accelerated, such Restricted Stock Units will be considered as having vested as of the date specified by the Administrator. If Participant is a

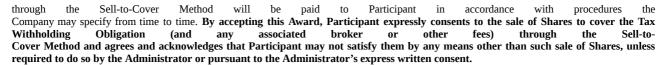
U.S. taxpayer, the payment of Shares vesting pursuant to this Section 4(b) shall in all cases be paid at a time or in a manner that is exempt from, or complies with, Section 409A. The prior sentence may be superseded in a future agreement or amendment to this Award Agreement only by direct and specific reference to such sentence.

(ii) Notwithstanding anything in the Plan or this Award Agreement or any other agreement (whether entered into before, on or after the Date of Grant), if the vesting of the balance, or some lesser portion of the balance, of the Restricted Stock Units is accelerated in

- connection with Participant's termination as a Service Provider (provided that such termination is a "separation from service" within the meaning of Section 409A, as determined by the Company), other than due to Participant's death, and if (x) Participant is a U.S. taxpayer and a "specified employee" within the meaning of Section 409A at the time of such termination as a Service Provider and (y) the payment of such accelerated Restricted Stock Units will result in the imposition of additional tax under Section 409A if paid to Participant on or within the six (6) month period following Participant's termination as a Service Provider, then the payment of such accelerated Restricted Stock Units will not be made until the date six (6) months and one (1) day following the date of Participant's termination as a Service Provider, unless Participant dies following his or her termination as a Service Provider, in which case, the Restricted Stock Units will be paid in Shares to Participant's estate as soon as practicable following his or her death.
- (c) <u>Section 409A</u>. It is the intent of this Award Agreement that it and all payments and benefits to U.S. taxpayers hereunder be exempt from, or comply with, the requirements of Section 409A so that none of the Restricted Stock Units provided under this Award Agreement or Shares issuable thereunder will be subject to the additional tax imposed under Section 409A, and any ambiguities herein will be interpreted to be so exempt or so comply. Each payment payable under this Award Agreement is intended to constitute a separate payment for purposes of Treasury Regulation Section 1.409A-2(b)(2). However, in no event will the Company reimburse Participant, or be otherwise responsible for, any taxes or costs that may be imposed on Participant as a result of Section 409A. For purposes of this Award Agreement, "Section 409A" means Section 409A of the Code, and any final Treasury Regulations and Internal Revenue Service guidance thereunder, as each may be amended from time to time.
- 5. <u>Forfeiture Upon Termination as a Service Provider</u>. Notwithstanding any contrary provision of this Award Agreement, if Participant ceases to be a Service Provider for any or no reason, the then-unvested Restricted Stock Units awarded by this Award Agreement will thereupon be forfeited at no cost to the Company and Participant will have no further rights thereunder.
- 6. <u>Tax Consequences</u>. Participant has reviewed with his or her own tax advisors the U.S. federal, state, local and non-U.S. tax consequences of this investment and the transactions contemplated by this Award Agreement. With respect to such matters, Participant relies solely on such advisors and not on any statements or representations of the Company or any of its agents, written or oral. Participant understands that Participant (and not the Company) shall be responsible for Participant's own tax liability that may arise as a result of this investment or the transactions contemplated by this Award Agreement.
- 7. <u>Death of Participant</u>. Any distribution or delivery to be made to Participant under this Award Agreement will, if Participant is then deceased, be made to Participant's designated beneficiary, or if no beneficiary survives Participant, the administrator or executor of Participant's estate. Any such transferee must furnish the Company with (a) written notice of his or her status as transferee, and (b) evidence satisfactory to the Company to establish the validity of the transfer and compliance with any laws or regulations pertaining to said transfer.

8. <u>Tax Obligations</u>

- Responsibility for Taxes. Participant acknowledges that, regardless of any action taken by the Company or, if different, Participant's (the "Employer") Subsidiary to which Participant is providing services (together, the Company, Employer and/or Parent or Subsidiary to which the Participant is providing services, the "Service Recipient"), the ultimate liability for any tax and/or social insurance liability obligations and requirements in connection with the Restricted Stock Units, including, without limitation, (i) all federal, state, and local taxes (including the Participant's Federal Insurance Contributions Act (FICA) obligation) that are required to be withheld by the Company or the Employer or other payment of tax-related items related to Participant's participation in the Plan and legally applicable to Participant, (ii) the Participant's and, to the extent required by the Company (or Service Recipient), the Company's (or Service Recipient's) fringe benefit tax liability, if any, associated with the grant, vesting, or settlement of the Restricted Stock Units or sale of Shares, and (iii) any other Company (or Service Recipient) taxes the for which the Participant has, or has agreed to bear, with respect to the settlement thereof or issuance of Shares thereunder) (collectively, the "Tax Obligations"), Units (or and remains Participant's responsibility and may exceed the amount actually withheld by the Company or the Service Recipient. Participant further and/or that the Company Recipient (A) make no representations or undertakings regarding the treatment of any Tax Obligations in connection with any aspect of the Units, including, not limited Restricted Stock the but to, vesting or settlement of the Restricted Stock Units, the subsequent sale of Shares acquired pursuant to such settlement and the receipt of any dividends or other distributions, and (B) do not commit to and are under no obligation to structure the terms of the grant or any aspect of the Restricted Stock Units to reduce or eliminate Participant's liability for Tax Obligations or achieve any particular tax result. Further, if Participant is subject to Tax Obligations in more than one jurisdiction between the Date of Grant and the date of any relevant taxable or withholding event, as applicable, acknowledges that the Company and/or the Service Recipient (or former employer, as applicable) may be required to withhold or account for Tax jurisdiction. Obligations Ιf Participant in more than one fails to make satisfactory arrangements for the payment of any required Tax Obligations hereunder at the time of the applicable taxable event, Participant acknowledges and agrees that the Company may refuse to issue or deliver the Shares.
- Tax Withholding and Default Sell-to-Cover Method of Tax Withholding. When Shares are issued as payment for vested Restricted Stock Units, Participant generally will recognize immediate U.S. taxable income if Participant is a U.S. taxpayer. If Participant is a non-U.S. taxpayer, Participant will be subject to applicable taxes in his or her jurisdiction. Subject to Section 8(c), the minimum amount of Tax Obligations which the Company determines must be withheld with respect to this Award ("Tax Withholding Obligation") will be satisfied by Shares being sold on Participant's behalf at the prevailing market price pursuant to such procedures as the Company may specify from time to time, including through a broker-assisted arrangement (it being understood that the Shares to be sold must have vested pursuant to the terms of this Award Agreement and the Plan) (the "Sell-to-Cover Method"). The proceeds from the Sell-to-Cover Method will be used to satisfy Participant's Tax Withholding Obligation arising with respect to this Award. In addition to Shares satisfy the Withholding Obligation, additional Shares Tax will be sold to satisfy broker or other fees. Only whole Shares will be sold through the Sell-to-Cover Method to satisfy any Tax Withholding Obligation and any broker or other fees. Any proceeds from Shares in excess of the Tax Withholding Obligation and any associated broker or other fees generated



- (c) <u>Administrator</u> <u>Discretion.</u> Notwithstanding the foregoing Sections 8(a) and 8(b), if the Administrator determines it is in the best interests of the Company for Participant to satisfy Participant's Tax Withholding Obligation by a method other than through the default Sell-to-Cover Method described in Section 8(b), it may permit or require Participant to satisfy Participant's Tax Withholding Obligation, in whole or in part (without limitation), if permissible by Applicable Laws, by (i) paying cash, (ii) withholding the amount of such Tax Withholding Obligation from Participant's wages or other cash compensation paid to Participant by the Company and/or the Service Recipient,
- (iii) delivering to the Company Shares that Participant owns and that have vested with a fair market value equal to the amount required to be withheld (or such greater amount up to the maximum statutory rate applicable to the Participant if permitted by the Administrator and provided such greater amount would not result in adverse financial accounting consequences to the Company as determined by the Administrator), (iv) by having the Company withhold otherwise deliverable Shares having a fair market value equal to the amount required to be withheld (or such greater amount up to the maximum statutory rate applicable to the Participant if permitted by the Administrator and provided such greater amount would not result in adverse financial accounting consequences to the Company as determined by the Administrator) or (v) such other means as the Administrator deems appropriate.
- (d) <u>Company's Obligation</u> to <u>Deliver Shares</u>. For clarification purposes, in no event will the Company issue Participant any Shares unless and until arrangements satisfactory to the Administrator have been made for the payment of Participant's Tax Withholding Obligation. If Participant fails to make satisfactory arrangements for the payment of such Tax Withholding Obligations hereunder at the time any applicable Restricted Stock Units otherwise are scheduled to vest pursuant to Sections 3 or 4 or Participant's Tax Withholding Obligations otherwise become due, Participant will permanently forfeit such Restricted Stock Units to which Participant's Tax Withholding Obligation relates and any right to receive Shares thereunder and such Restricted Stock Units will be returned to the Company at no cost to the Company. Participant acknowledges and agrees that the Company may refuse to issue or deliver the Shares if such Tax Obligations are not delivered at the time they are due.
- Rights as Stockholder. Neither Participant nor anv person claiming under Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares deliverable hereunder unless and (which certificates representing such Shares may book entry form) will have been issued, recorded on the records of the Company or its transfer agents or registrars, and delivered to Participant (including through electronic delivery to a brokerage account). After such issuance, recordation, and delivery, Participant will have all the rights of a stockholder of the Company with respect to voting such Shares and receipt of dividends and distributions on such Shares.
- 10. No Guarantee of Continued Service. PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF THE RESTRICTED STOCK UNITS PURSUANT TO THE

VESTING SCHEDULE HEREOF IS EARNED ONLY BY CONTINUING AS A SERVICE PROVIDER, WHICH UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW IS AT THE WILL OF THE COMPANY (OR THE SERVICE RECIPIENT) AND NOT THROUGH THE ACT OF BEING HIRED. BEING GRANTED THIS RESTRICTED STOCK UNIT AWARD OR ACOUIRING SHARES HEREUNDER. PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THIS AWARD AGREEMENT, THE TRANSACTIONS CONTEMPLATED HEREUNDER AND THE VESTING SCHEDULE SET FORTH HEREIN DO NOT CONSTITUTE AN EXPRESS OR **IMPLIED PROMISE** OF CONTINUED ENGAGEMENT AS PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND SHALL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE COMPANY (OR THE SERVICE RECIPIENT) TO TERMINATE PARTICIPANT'S SERVICE PROVIDER, SUBJECT APPLICABLE AS Α TO LAW, TERMINATION, UNLESS PROVIDED OTHERWISE UNDER APPLICABLE LAW, MAY BE AT ANY TIME, WITH OR WITHOUT CAUSE.

- Grant is Not Transferable. Except to the limited extent provided in Section 7, this grant and the rights and privileges conferred 11. hereby will not be transferred, assigned, pledged or hypothecated in any way (whether by operation of law or otherwise) and will not be subject to to under execution. attachment or similar process. Upon any attempt transfer. pledge, hypothecate or otherwise dispose of this grant, or any right or privilege conferred hereby, or upon any attempted sale under any execution, attachment or similar process, this grant and the rights and privileges conferred hereby immediately will become null and void.
 - Nature of Grant. In accepting the grant, Participant acknowledges, understands, and agrees that:
- (a) the grant of the Restricted Stock Units is voluntary and occasional and does not create any contractual or other right to receive future grants of Restricted Stock Units, or benefits in lieu of Restricted Stock Units, even if Restricted Stock Units have been granted in the past;
- (b) all decisions with respect to future Restricted Stock Units or other grants, if any, will be at the sole discretion of the Company;
 - (c) Participant is voluntarily participating in the Plan;
- (d) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not intended to replace any pension rights or compensation;
- (e) the Restricted Stock Units and the Shares subject to the Restricted Stock Units, and the income and value of same, are not part of normal or expected compensation for purposes of calculating any severance, resignation, termination, redundancy, dismissal, end-of-service payments, bonuses, long-service awards, pension or retirement or welfare benefits or similar payments;
 - (f) the future value of the underlying Shares is unknown, indeterminable and cannot be predicted;
 - (g) for purposes of the Restricted Stock Units, Participant's status as a Service

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Provider will be considered terminated as of the date Participant is no longer actively providing services to the Company or any Parent or Subsidiary (regardless of the reason for such termination and whether or not later to be found invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and unless otherwise expressly provided in this Award Agreement (including by reference in the Notice of Grant to other arrangements or contracts) or determined by the Administrator, Participant's right to vest in the Restricted Stock Units under the Plan, if any, will terminate as of such date and will not be extended by any notice period (e.g., Participant's period of service would not include any contractual notice period or any period of "garden leave" or similar period mandated under employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any, unless Participant is providing bona fide services during such time); the Administrator shall have the exclusive discretion to determine when Participant is no longer actively providing services for purposes of the Restricted Stock Units grant (including whether Participant may still be considered to be providing services while on a leave of absence and consistent with local law);

- (h) unless otherwise provided in the Plan or by the Company in its discretion, the Restricted Stock Units and the benefits evidenced by this Award Agreement do not create any entitlement to have the Restricted Stock Units or any such benefits transferred to, or assumed by, another company nor be exchanged, cashed out or substituted for, in connection with any corporate transaction affecting the Shares; and
 - (i) the following provisions apply only if Participant is providing services outside the United States:
- (i) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not part of normal or expected compensation or salary for any purpose;
- (ii) Participant acknowledges and agrees that none of the Company, the Employer or any Parent or Subsidiary shall be liable for any foreign exchange rate fluctuation between Participant's local currency and the United States Dollar that may affect the value of the Restricted Stock Units or of any amounts due to Participant pursuant to the settlement of the Restricted Stock Units or the subsequent sale of any Shares acquired upon settlement; and
- no claim or entitlement to compensation or damages shall arise from forfeiture of the Restricted Stock Units resulting from the termination of Participant's status as a Service Provider (for any reason whatsoever whether or not later found to be invalid or in breach of employment laws in the jurisdiction where Participant is a Service Provider or the terms of Participant's employment or service agreement, if any), and in consideration of the grant of the Restricted Stock Units to which Participant is otherwise not entitled, Participant irrevocably agrees never to institute any claim against the Company, any Parent or Subsidiary or the Service Recipient, waives his or her ability. if to bring anv such claim. and releases the Company, anv Parent Subsidiary and the Service Recipient from any such claim; if, notwithstanding the foregoing, any such claim is allowed by a court of competent iurisdiction. then. by participating the Plan. **Participant** in shall be deemed irrevocably to have agreed not to pursue such claim and agrees to execute any and all documents necessary to request dismissal or withdrawal of such claim.

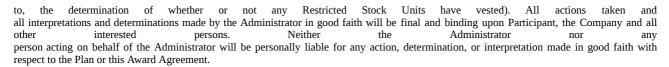
- providing any 13. Advice Regarding The Company is legal Grant. not financial No tax. or advice, nor is the Company making any recommendations regarding Participant's participation in the Plan, or Participant's acquisition or sale of underlying Shares. Participant is hereby advised consult with his or her own personal tax, legal and financial advisors regarding his or her participation in the Plan before taking any action related to the Plan.
- Privacy. **Participant** hereby explicitly and unambiguously consents <u>Data</u> collection, use and transfer, in electronic or other form, of Participant's personal data as described in this Award Agreement and any other grant Restricted Stock Unit materials hv and amona. as the Company Service Recipient, Subsidiary applicable, the **Employer** or other and anv Parent or for the exclusive purpose of implementing, administering and managing Participant's participation in the Plan.

Participant understands that the Company and the Service Recipient may hold certain personal information about Participant, including, but not limited to, Participant's name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any Shares or directorships held in the Company, details of all Restricted Stock Units or any other entitlement to Shares awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor ("Data"), for the exclusive purpose of implementing, administering and managing the Plan.

will he transferred **Participant** understands that Data to а stock plan service provider as mav be selected by the Company in the future, which is assisting the Company with the implementation, administration, and management of the Participant understands that the recipients Data may be located in the United States or elsewhere, and that the recipients' country of operation (e.g., the United States) may have different data privacy laws and protections than Participant's country. Participant understands that if he or she resides outside the United States, he or she may request a list with the names and addresses of any potential recipients of the Data by contacting his or her local human resources representative. Participant authorizes the Company, any stock plan service provider selected by the Company and any other possible recipients which may assist the Company (presently or in the future) with implementing, administering and managing the Plan to receive, possess, use, retain and transfer the Data, in electronic or other form, for the sole purpose of implementing, administering and managing his or her participation in the Plan. Participant understands that Data will be held only as long as is necessary to implement, administer and manage Participant's participation in the Plan. Participant understands if he or she resides outside the United States, he or she may, at any time, view Data, require and information about the storage and processing of Data, require any necessary amendments to Data or refuse or withdraw the consents herein, in any case without cost, by contacting in writing his or her local human resources representative. Further, Participant understands that he or she is providing the consents herein on a purely voluntary basis. If Participant does not consent, or if Participant later seeks to revoke his or her consent, his or her status as a Service Provider and career with the Service Recipient will not be adversely affected; the only adverse consequence of refusing or withdrawing Participant's consent is that the Company would not be able to grant Participant Restricted Stock Units or other equity awards or administer or maintain such awards. Therefore, Participant understands that refusing or withdrawing his or her consent may affect Participant's ability to participate in the For more information on the consequences Participant's refusal of consent or withdrawal of consent, Participant understands that he or she may contact his or her

local human resources representative.

- 15. <u>Address for Notices</u>. Any notice to be given to the Company under the terms of this Award Agreement will be addressed to the Company at Silk Road Medical, Inc., 1213 Innsbruck Dr., Sunnyvale, CA 94089, or at such other address as the Company may hereafter designate in writing.
- Electronic Delivery and Acceptance. The Company may, in its sole discretion, decide to deliver any documents related to the Restricted awarded Units under the Plan or Restricted Stock Units that may be awarded under the Plan by electronic means or request Participant's consent to participate in the Plan by means. Participant hereby consents to receive documents by electronic delivery and agrees to participate in the Plan through any on-line or electronic system established and maintained by the Company or a third party designated by the Company.
- No Waiver. Either party's failure to enforce any provision or provisions of this Award Agreement shall not in any way be provision provisions, construed waiver of such as a any or prevent enforcing other provision of this that from thereafter each and every Award party Agreement. The rights granted both parties herein are cumulative and shall not constitute a waiver of either party's right to assert all other legal remedies available to it under the circumstances.
- 18. <u>Successors and Assigns</u>. The Company may assign any of its rights under this Award Agreement to single or multiple assignees, and this Award Agreement shall inure to the benefit of the successors and assigns of the Company. Subject to the restrictions on transfer herein set forth, this Award Agreement shall be binding upon Participant and his or her heirs, executors, administrators, successors and assigns. The rights and obligations of Participant under this Award Agreement may only be assigned with the prior written consent of the Company.
- Additional Conditions to Issuance of Stock. If at any time the Company will determine, in its discretion, that the listing, 19. registration, qualification or rule compliance of the Shares upon any securities exchange or under any state, federal or nonthe and related U.S. law. tax code regulations under the rulings or regulations of the United States Securities and Exchange Commission or any other governmental regulatory body or the clearance, consent or approval of the United States Securities and Exchange Commission or any other governmental regulatory authority is necessary or desirable as a condition to the issuance of Shares to Participant (or his or her estate) hereunder, such issuance will not occur unless and until such listing, registration, qualification, rule compliance, clearance, consent or approval will have been completed, effected or obtained free of any conditions not acceptable to the Company. Subject to the terms of the Award Agreement and the Plan, the Company shall not be required to issue any certificate or certificates for Shares hereunder prior to the lapse of such reasonable period of time following the date of vesting of the Restricted Stock Units as the Administrator may establish from time to time for reasons of administrative convenience.
- 20. <u>Language</u>. If Participant has received this Award Agreement or any other document related to the Plan translated into a language other than English and if the meaning of the translated version is different than the English version, the English version will control.
- 21. <u>Interpretation</u>. The Administrator will have the power to interpret the Plan and this Award Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited



- 22. <u>Captions</u>. Captions provided herein are for convenience only and are not to serve as a basis for interpretation or construction of this Award Agreement.
- 23. Amendment, Suspension or Termination of the Plan. By accepting this Award, Participant expressly warrants that he or she has received an Award of Restricted Stock Units under the Plan, and has received, read, and understood a description of the Plan. Participant understands that the Plan is discretionary in nature and may be amended, suspended or terminated by the Company at any time.
- Modifications to the Award Agreement. This Award Agreement constitutes the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Award Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Award Agreement or the Plan can be made only in an express written contract by a duly authorized officer of to the in the Plan or this Award anything contrary Agreement, the right to revise this Award Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Section 409A in connection with this Award of Restricted Stock Units.
- Severability. This Agreement Governing Venue; Award Restricted Stock Law; and the Units are governed by the internal substantive laws, but not the choice of law rules, of California. For purposes of litigating any dispute that arises Restricted Stock Units this or Agreement, the parties hereby submit to and consent to the jurisdiction of the State of California, and agree that such litigation will be conducted in the courts of Santa Clara County, California, or the United States federal courts for the Northern District of California, and no other courts, where this Award Agreement is made and/or to be performed. In the event that any provision hereof becomes or is declared by a court of competent jurisdiction to be illegal, unenforceable or void, this Award Agreement shall continue in full force and effect.
- 26. <u>Entire Agreement</u>. The Plan is incorporated herein by reference. The Plan and this Award Agreement (including the appendices and exhibits referenced herein) constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and Participant with respect to the subject matter hereof, and may not be modified adversely to the Participant's interest except by means of a writing signed by the Company and Participant.
- Addendum. Notwithstanding Country any provisions in this Award Agreement, the Restricted Stock Unit grant shall be subject to any special terms and conditions set forth in an appendix (if any) to this Award Agreement for any whose laws applicable Participant this are to and Award of Restricted Stock Units (as determined by the Administrator in its sole discretion) (the

"Country Addendum"). Moreover, if Participant relocates to one of the countries included in the Country Addendum (if any), the special terms and conditions for such country will apply to Participant, to the extent the Company determines that the application of such terms and conditions is necessary or advisable for legal or administrative reasons. The Country Addendum constitutes part of this Award Agreement.

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SILK ROAD MEDICAL, INC. 2019 EQUITY INCENTIVE PLAN PERFORMANCE STOCK UNIT AGREEMENT COUNTRY ADDENDUM

TERMS AND CONDITIONS

This Country Addendum includes additional terms and conditions that govern the Award of Restricted Stock Units granted to Participant under the Plan if Participant works in one of the countries listed below. If Participant is a citizen or resident of a country (or is considered as such for local law purposes) other than the one in which he or she is currently working or if Participant relocates to another country after receiving the Award of Restricted Stock Units, the Company will, in its discretion, determine the extent to which the terms and conditions contained herein will be applicable to Participant.

Certain capitalized terms used but not defined in this Country Addendum shall have the meanings set forth in the Plan, and/or the Performance Stock Unit Agreement to which this Country Addendum is attached.

NOTIFICATIONS

Addendum includes notifications This Country also relating to exchange control and other issues of which Participant should be aware with respect to his or her participation in the Plan. The information is based on the exchange control, securities and other effect the laws in in countries listed in this Country Addendum, as of [DATE]. Such laws are often complex and change frequently. As a result, the Company strongly recommends that Participant not rely on the notifications herein as the only source of information relating to the consequences of his or her participation in the Plan because the information may be outdated when Participant vests in the Restricted Stock Units and acquires Shares, or when Participant subsequently sell Shares acquired under the Plan.

In addition, the notifications are general in nature and may not apply to Participant's particular situation, and the Company is not in a position to assure Participant of any particular result. Accordingly, Participant is advised to seek appropriate professional advice as to how the relevant laws in Participant's country may apply to Participant's situation.

Finally, if Participant is a citizen or resident of a country other than the one in which Participant is currently working (or is considered as such for local law purposes) or if Participant moves to another country after receiving the Award of Restricted Stock Units, the information contained herein may not be applicable to Participant.

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CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-3 (No. 333-238007) and S-8 (Nos. 333-263157, 333-253739, 333-236841 and 333-230778) of Silk Road Medical, Inc. of our report dated February 28, 2023 relating to the financial statements, financial statement schedule and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP San Jose, California February 28, 2023

CERTIFICATION OF CHIEF EXECUTIVE OFFICER

Pursuant to
Securities Exchange Act Rules 13a-14(a) and 15d-14(a),
As Adopted Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002

I, Erica J. Rogers, certify that:

- 1 I have reviewed this Annual Report on Form 10-K of Silk Road Medical, Inc.;
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:
- a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
- b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
- d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Erica J. Rogers

Erica J. Rogers

President, Chief Executive Officer and Director (Principal Executive Officer)

Date: February 28, 2023

CERTIFICATION OF CHIEF FINANCIAL OFFICER

Pursuant to
Securities Exchange Act Rules 13a-14(a) and 15d-14(a),
As Adopted Pursuant to
Section 302 of the Sarbanes-Oxley Act of 2002

I. Lucas W. Buchanan, certify that:

- 1 I have reviewed this Annual Report on Form 10-K of Silk Road Medical, Inc.;
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:
- a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
- b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
- d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Lucas W. Buchanan

Lucas W. Buchanan Chief Financial Officer and Chief Operating Officer (Principal Financial and Accounting Officer)

Date: February 28, 2023

CERTIFICATIONS OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER
PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Silk Road Medical, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2022, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- 1. The Report, fully complies with the requirements of Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934, as amended; and
- 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Erica J. Rogers

Erica J. Rogers

President, Chief Executive Officer and Director

(Principal Executive Officer)

Date: February 28, 2023

Is/ Lucas W. Buchanan
Lucas W. Buchanan
Chief Financial Officer and Chief Operating Officer
(Principal Financial and Accounting Officer)

Date: February 28, 2023