## 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, 2023** TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from Commission file number: 001-37969 **ENDRA Life Sciences Inc.** (Exact Name of Registrant as Specified in Its Charter) 26-0579295 **Delaware** (State or Other Jurisdiction of Incorporation or (I.R.S. Employer Identification No.) Organization) 3600 Green Court, Suite 350, Ann Arbor, MI 48105-1570 (Address of Principal Executive Offices) (Zip Code) (734) 335-0468 (Registrant's telephone number, including area code) Securities registered pursuant to Section 12(b) of the Act: Title of each class Name of each exchange on which **Trading Symbol** registered Common Stock, par value \$0.0001 per The Nasdaq Stock Market LLC **NDRA** share Securities registered pursuant to Section 12(g) of the Act: 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 13 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 file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ⊠ No □ Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  $\boxtimes$  No  $\square$ Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act. Large accelerated filer Accelerated filer  $\boxtimes$  $\boxtimes$ Non-accelerated Filer Smaller reporting company Emerging growth company 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) of the Exchange Act.  $\Box$ Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its 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

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to § 240.10D-1(b).  $\Box$ 

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included

prepared or issued its audit report.  $\Box$ 

in the filing reflect the correction of an error to previously issued financial statements.  $\Box$ 

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 voting and non-voting common equity held by non-affiliates of the registrant, as of June 30, 2023, was approximately \$10,256,564 based on the closing sales price of the common stock as reported on the Nasdaq Capital Market.

As of March 24, 2024, there were 11,035,659 shares of the registrant's common stock outstanding.

#### DOCUMENTS INCORPORATED BY REFERENCE

None.

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## CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K (this "Annual Report") contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, that are intended to be covered by the "safe harbor" created by those sections. Forward-looking statements, which are based on certain assumptions and describe our future plans, strategies and expectations, can generally be identified by the use of forward-looking terms such as "believe," "expect," "may," "will," "should," "would," "could," "seek," "intend," "plan," "goal," "project," "estimate," "anticipate," "strategy", "future", "likely" or other comparable terms and references to future periods. All statements other than statements of historical facts included in this Annual Report regarding our strategies, prospects, financial condition, operations, costs, plans and objectives are forward-looking statements. Examples of forward-looking statements include, among others, statements we make regarding: estimates of the timing of future events and anticipated results of our development efforts, including the timing of submission for and receipt of required regulatory approvals and product launches; statements relating to future financial position and projected costs and revenue; expectations concerning our business strategy; and statements regarding our ability to find and maintain development partners.

Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends, the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of our control. Our actual results and financial condition may differ materially from those indicated in the forward-looking statements. Therefore, you should not rely on any of these forward-looking statements. Important factors that could cause our actual results and financial condition to differ materially from those indicated in the forward-looking statements include, among others, the following:

our limited commercial experience, limited cash and history of losses;

- our ability to obtain adequate financing to fund our business operations in the future;
- · our ability to achieve profitability;
- delays and changes in regulatory requirements, policy and guidelines, including potential delays in submitting required regulatory applications or other submissions with respect to U.S. Food and Drug Administration ("FDA") or other regulatory agency approval;
- · our ability to obtain and maintain required CE mark certifications and secure required FDA and other governmental approvals for our Thermo-Acoustic Enhanced Ultrasound ("TAEUS") applications;
- our ability to develop a commercially feasible application based on our TAEUS technology;
- · market acceptance of our technology;
- the effect of macroeconomic conditions on our business;
- results of our human studies, which may be negative or inconclusive;
- · our ability to find and maintain development partners;
- our reliance on third parties, collaborations, strategic alliances and licensing arrangements to complete our business strategy;
- the amount and nature of competition in our industry;
- · our ability to protect our intellectual property;
- potential changes in the healthcare industry or third-party reimbursement practices;
- · our ability to comply with regulation by various federal, state, local and foreign governmental agencies and to maintain necessary regulatory clearances or approvals;
- our ability to maintain compliance with Nasdaq listing standards;
- · our dependence on our senior management team; and
- the other risks and uncertainties described in the Risk Factors and in Management's Discussion and Analysis of Financial Condition and Results of Operations sections of this Annual Report.

Any forward-looking statement made by us in this report is based only on information currently available to us and speaks only as of the date on which it is made. We undertake no obligation to publicly update any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future developments or otherwise.

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#### PART I

As used in this Annual Report, unless the context otherwise requires, the terms "ENDRA," "we," "us," "our," and the "Company" refer to ENDRA Life Sciences Inc., a Delaware corporation, and its subsidiaries.

# Item 1. Business

# Overview

We were incorporated as a Delaware corporation in 2007. We are developing a next-generation enhanced ultrasound technology platform—Thermo Acoustic Enhanced Ultrasound, or TAEUS® in order to broaden patient access to the safe diagnosis and treatment of a number of significant medical conditions in circumstances where expensive X-ray computed tomography ("CT"), magnetic resonance imaging ("MRI") technology, or other diagnostic technologies such as surgical biopsy, are unavailable or impractical.

Our TAEUS technology uses radio frequency ("RF") pulses to stimulate tissues, using a small fraction (less than 1%) of the amount of energy that would be transmitted into the body during an MRI scan. The use of RF energy allows our TAEUS technology to penetrate deep into tissue, enabling the imaging of human anatomy at depths equivalent to those of conventional ultrasound. The RF pulses are absorbed by tissue and converted into ultrasound signals, which are detected by an external ultrasound receiver and a digital acquisition system that is part of the TAEUS system. The detected ultrasound is processed into images and other forms of data using our proprietary software and algorithms and then displayed to complement conventional gray-scale ultrasound images.

We use suppliers of components, such as Blatek Industries, Inc. and Elite RF, LLC, and contract manufacturers, such as Starfish Product Engineering, Inc., to assemble and test the TAEUS liver system for commercial sale. Suppliers are vetted before engaging in work with the Company and are reviewed annually, as part of our quality management system, to assure their performance meets our needs. We have implemented internal processes to monitor designs, inventory and supply of key components needed to manufacture our TAEUS liver system. We plan production in accordance with anticipated market demand and availability and lead times of needed materials.

As described below, our first TAEUS platform application focuses on quantifying fat in the liver and stage progression of nonalcoholic fatty liver disease ("NAFLD") which, untreated, can progress to Nonalcoholic Steatohepatitis ("NASH"), fibrosis, cirrhosis and liver cancer. In April 2016, we entered into a Collaborative Research Agreement with General Electric Company, acting through its GE Healthcare business unit and the GE Global Research Center (collectively, "GE Healthcare"), under which GE Healthcare has agreed to assist us in our efforts to commercialize this application. In November 2017, we contracted with the Centre for Imaging Technology Commercialization ("CIMTEC") to initiate human studies, through Canada-based Robarts Research Institute, with our TAEUS device targeting NAFLD. In October 2018, we received an Investigational Testing Authorization ("ITA") from Health Canada to commence the first human studies in healthy volunteers with our TAEUS clinical system targeting NAFLD, guiding our algorithm development, and comparing our technology to MRI. The feasibility study was conducted in collaboration with Robarts Research Institute in London, Ontario, Canada. We reported the completion and top-level findings of this study in September 2019. The data collected from the study, including additional usability inputs, was included in our TAEUS liver device technical file submission for device CE mark, which we received for our NAFLD TAEUS application in March 2020. We have registered the product in each of our primary target European markets (i.e., Germany, France, and the United Kingdom). As of December 31, 2023, we had in effect seven clinical evaluation agreements with research hospitals in North America, Europe and Asia for the conduct of clinical studies comparing our TAEUS clinical system to MRI-Proton Density Fat Fraction ("MRI-PDFF") in the measurement of liver fat.

In June 2020, we submitted a 510(k) Application to the FDA for our TAEUS Fatty Live Imaging Probe ("FLIP") System. In February 2022, we announced that we would pursue FDA reclassification and clearance of our TAEUS FLIP System through the FDA's "de novo" process. We subsequently voluntarily withdrew our 510(k) Application and submitted a de novo request for the TAEUS system to the FDA in the third quarter of 2023. In the fourth quarter of 2023, the FDA sent an Additional Information ("AI") request related to our de novo application. Since we received the AI request, we have had several interactions with the FDA and have provided additional information. In order to fully respond to the FDA's questions, we will need to compile additional clinical data, provide additional device test data, and respond to cybersecurity related questions in a new de novo submission. We have a scheduled inperson pre-submission meeting with the FDA in the second quarter of 2024. We currently anticipate completing the necessary clinical studies by the fourth quarter of 2024 and submitting the new de novo request to the FDA in the first half of 2025.

#### Diagnostic Imaging Technologies

Diagnostic imaging technologies such as CT, MRI and ultrasound allow physicians to look inside a person's body to guide treatment or gather information about medical conditions such as broken bones, cancers, signs of heart disease or internal bleeding. The type of imaging technology a physician uses depends on a patient's symptoms and the part of the body being examined. CT technology is well suited for viewing bone injuries, diagnosing lung and chest problems, and detecting cancers. MRI technology excels at examining soft tissue in ligament and tendon injuries, spinal cord injuries, and brain tumors. CT scans can take as little as 5 minutes, while an MRI scan can take up to 30 minutes.

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Unfortunately, while CT and MRI systems are versatile and create high quality images, they are also expensive and not always accessible to patients. A CT system costs approximately \$1 million and an MRI system can cost up to \$3 million. CT and MRI systems are large and can weigh several tons, typically requiring significant modifications to existing healthcare facilities to safely site the CT and MRI equipment. Because of their size and weight, CT and MRI systems are usually fixed-in-place at major medical facilities. As a result, they are less accessible to primary care and rural clinics, economically developing markets, and patient bedsides. As of 2024, there are approximately 80,000 CT systems and 58,000 MRI systems worldwide, with a significant portion located in the U.S. and Japan.

While CT and MRI systems create high quality images, their use is not always practical. For example, the diagnosis and treatment of the estimated 2.5 billion people suffering from NAFLD requires ongoing surveillance of the patients' livers to assess the progression of the disease and the efficacy of treatment. However, the use of CT and MRI systems to perform that surveillance is impractical for a number of reasons, including the high cost of the scan and the limited availability of CT and MRI systems. Patient exposure to the ionizing radiation generated by a CT system must be limited for safety reasons. Similarly, because of the strong magnetic field created by an MRI machine, patients with metal joint replacements or cardiac pacemakers may be limited for safety reasons in their use of an MRI system.

## **Ultrasound Technology**

An ultrasound machine transmits sound waves, which bounce off tissues, organs and blood in the body. The ultrasound machine captures these echoes and uses them to create an image. Ultrasound technology excels at imaging the structure of internal organs, muscles and bone surfaces. Due to its utility, cost-effectiveness and safety profile, ultrasound imaging is frequently used in a physician's examination room or at a patient's bedside as a first-line diagnostic tool, which has resulted in an overall increase in the number of ultrasound scans performed.

Ultrasound systems are more broadly available to patients than either CT or MRI systems. There are an estimated 1.6 million diagnostic ultrasound systems globally in use today. Ultrasound systems are relatively inexpensive compared to CT and MRI systems, with smaller portable ultrasound systems costing as little as \$5,000 and new cart-based ultrasound systems costing between \$75,000 and \$200,000. Ultrasound systems are also more mobile than CT and MRI systems and many are designed to be moved by an operator from room to room, or closer to patients. Ultrasound technology does not present the same safety concerns as CT and MRI technology, since ultrasound does not emit ionizing radiation and ultrasound contrast agents are generally considered to be safe.

However, ultrasound's imaging capabilities are more limited compared to CT and MRI technology. For example, ultrasound systems cannot measure tissue temperature during thermal ablation surgery or quantify fat to diagnose early-stage liver disease-instances where CT and MRI systems are used.

## **Ultrasound Market**

The global diagnostic ultrasound device market size was valued at \$7.7 billion in 2023 and is anticipated to expand at a CAGR of 4.07% from 2022 to 2030. These numbers include both portable and cart-based ultrasound systems, and cover all types of diagnostic ultrasound procedures, including systems intended for cardiology, prenatal and abdominal use. We do not currently intend to address cart-based ultrasound systems focused on applications in prenatal care, nor certain portable ultrasound applications such as emergency room medicine, where we believe our TAEUS technology may not substantially impact patient care. Accordingly, we estimate our addressable market for one or more of our current or future TAEUS applications to include approximately 700,000 ultrasound systems currently in use throughout the world, in addition to other types of capital equipment.

We believe that demand for ultrasound systems is driven primarily by the following factors:

- Population growth and age demographics that increase the demand for diagnostic screening for cancer, cardiology, and prenatal applications.
- · Economic development broadening investment in healthcare in underserved markets such as China and Latin America, where ultrasound technology has significant appeal due to its price point and flexibility at point-of-care.
- Expanding ultrasound applications and improving image quality that drive demand for new ultrasound technologies, such as software enhancements, bi-axial probes, and dedicated single application systems.
- · Positive insurance reimbursement rate trends for ultrasound diagnostics due to the technology's safety and cost-effectiveness.

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#### **Unmet Need**

We believe that the limited availability of high-utility and cost-effective imaging technology represents a significant unmet medical need. We believe that expanding the capability of ultrasound technology to perform more of the imaging tasks presently available only on expensive CT and MRI systems will help to satisfy this unmet need.

## **Our Solutions**

Our TAEUS technology uses a pulsed energy source-specifically, RF—to generate ultrasonic waves in tissue. These waves are then detected with ultrasound equipment and used to create high-contrast images and other forms of data using our proprietary algorithms. Unlike conventional ultrasound, which creates images based on the scattering properties of tissue, thermoacoustic imaging provides tissue absorption maps of the pulsed energy, similar to those generated by CT scans. Ultrasound is only utilized to transmit the absorption signal to the imaging system outside of the body.

## Our TAEUS Technology Platform for Clinical Applications

To increase the utility of our thermoacoustic technology, in 2013 we began to develop our TAEUS technology platform. Unlike the near-infrared light pulses used in our earlier photoacoustic systems, our TAEUS technology uses RF pulses to stimulate tissues, using a small fraction of the energy transmitted into the body during an MRI scan. Using RF energy enables our TAEUS technology to penetrate deep into tissue, enabling the imaging of human anatomy at depths equivalent to those of conventional ultrasound. The RF pulses are absorbed by tissue and converted into ultrasound signals, which are detected by an external ultrasound receiver and a digital acquisition system that is part of the TAEUS system. Our RF-based thermoacoustics imaging is not adversely affected by blood-filled organs, enabling our TAEUS technology to be used in clinical liver applications, among others. The detected ultrasound can then be processed into ultrasound overlays or quantitative data that may be translated into clinically useful metrics using our proprietary algorithms and displayed to complement conventional gray-scale ultrasound images. The TAEUS imaging concept is illustrated below:

# ENDRA's Thermo Acoustic Enhanced Ultrasound: TAEUS®

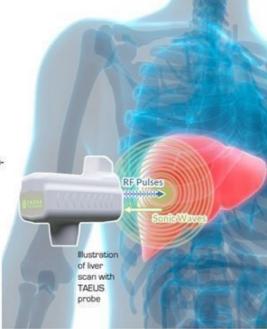
### TAEUS SYSTEM

 System consists of a console, foot pedal, probe and display

## PROCEDURE

- Step 1: Locate liver through ribs with a traditional B-mode ultrasound (handheld or cart-based)
- Step 2: Apply TAEUS probe and take thermoacoustic measurements: Radio frequency (RF) pulses create unique sonic signatures that quantitate liver fat
- Step 3: Quantitative TAEUS measurements are displayed on a small display, and do not require a radiological interpretation





After required regulatory approvals, our TAEUS technology can be added as an accessory to existing ultrasound systems, helping to improve clinical decision-making on the front lines of patient care, without requiring substantially new clinical workflows or large capital investments. We also intend to offer a license for our TAEUS technology to OEMs, such as ultrasound and thermoablative capital equipment makers, for incorporation in their new capital equipment systems.

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We believe that our TAEUS technology has the potential to add a number of new capabilities to conventional ultrasound and other types of capital equipment, thereby enhancing the utility and extending the use of these technologies to circumstances that either currently require the use of expensive CT or MRI imaging systems, where imaging is not practical using existing technology, or where other assessment tools such as surgical biopsy are required. To demonstrate the capabilities of our TAEUS platform, we have conducted various internal ex-vivo laboratory experiments and limited internal in-vivo large animal studies. In our ex-vivo and in-vivo testing, we have demonstrated that the TAEUS platform has the following capabilities and potential clinical applications:

- · Tissue Composition: Our TAEUS technology enables ultrasound to distinguish fat from lean tissue. This capability would enable the use of TAEUS-enhanced ultrasound for the early identification, staging and monitoring of NAFLD, a precursor to NASH, liver fibrosis, cirrhosis and liver cancer.
- · Temperature Monitoring: Our TAEUS technology enables traditional ultrasound to visualize changes in tissue temperature, in real time. This capability would enable the use of TAEUS-enhanced ultrasound to guide thermoablative therapy, which uses heat or cold to affect tissue, such as in the treatment of cardiac atrial fibrillation, or removal of cancerous liver and kidney lesions, with greater accuracy, and perform cosmetology procedures such as lipolysis of abdominal fat.
- · Vascular Imaging: Our TAEUS technology has the potential to enable visualization of blood vessels from any angle, using only a saline solution contrasting agent, unlike Doppler ultrasound, which requires precise viewing angles. This capability would enable the use of TAEUS-enhanced ultrasound to assist in identifying arterial plaques or malformed vessels.
- Tissue Perfusion: Our TAEUS technology has the potential to image blood flow at the capillary level in a region, organ or tissue. This capability could be used to assist physicians in characterizing abnormalities in tissue perfusion symptomatic of damaged tissue, such as internal bleeding from trauma, or diseased tissue, such as certain cancers.

Because of the large number of traditional ultrasound systems currently in global use, we are first developing our TAEUS technology for sale as an aftermarket accessory that works with existing ultrasound systems. Because our TAEUS technology is designed to enhance the utility of, not replace, conventional ultrasound, we believe healthcare providers will be able to increase the utilization of, and generate new revenue from, their existing ultrasound systems once we obtain required regulatory approval for specific applications. We further believe that clinicians will be attracted to our technology because it will enable them to perform more procedures with existing ultrasound equipment, thereby retaining more imaging patients in their clinics rather than referring patients out to a regional medical center for a CT or MRI scan.

ENDRA's first clinical product is designed to interface with a conventional ultrasound scanner, utilizing the scanner's B-mode imaging to guide the selected region for assessment of liver fat content. The following sub-systems will comprise ENDRA's first generation product.

#### Radio Frequency (RF) Source and Computer:

The RF source consists of a low power waveform generator and an amplifier. Together, these components provide the characteristic pulses required to excite thermoacoustic signals in tissue. The computer provides processing capability to both utilize the conventional ultrasound data for navigation to the measurement site of interest, and the calculations required to convert digitized thermoacoustic signals to measurements of fat in liver tissue. The entire subsystem will reside in a single enclosure, on wheels, and sit adjacent to the ultrasound imaging system.

## **Specialized Transducer:**

A single channel "receive only" ultrasound transducer is specifically designed and optimized for thermoacoustic imaging. The transducer sub-system will detect thermoacoustic signals excited by the RF source within the liver. The transducer assembly includes electronics for signal amplification, digitization, and signal processing. The specialized transducer will work in concert with the conventional ultrasound probe used for liver imaging.

#### **RF Applicator:**

The RF applicator transmits pulses of energy, provided by the RF source, into tissue. The applicator is positioned in proximity to the target region for measurement.

TAEUS platforms will provide two-dimensional imaging with a transducer composed of multiple receive elements. The RF source and applicator would be similar to those in the first-generation product but the multi-element transducer would allow for multiple applications including: reading tissue composition, temperature, vascular flow, tissue perfusion, and other potential applications. Ultimately, we expect our technology will be incorporated into conventional ultrasound systems and our business model will transition from producing stand-alone systems to licensing our technology, IP and specialized components to ultrasound OEMs. Existing ultrasound equipment already includes power supplies, computation, high speed electronics, and ultrasound transducers, which may be leveraged by our thermoacoustic imaging applications. The RF source and applicator are the principal hardware components that will be added to OEM ultrasound systems for the OEM fully integrated form of our product.

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We are following a model that mirrors the approach used by companies in the past to introduce new ultrasound imaging capabilities to existing conventional ultrasound scanners. Color Doppler, elastography, 3-D imaging, and high channel count systems were all introduced by new companies (not already involved in conventional ultrasound imaging). Historically, ultrasound imaging has grown through the introduction of unique technology and capabilities that expanded the applications and use of clinical ultrasound in a form that often added separate hardware to existing ultrasound systems. Ultimately, as these new technologies gained acceptance in the marketplace they were incorporated into OEM-designed and built systems that were sold by the leading ultrasound imaging vendors.

Our first TAEUS platform application focuses on quantifying fat in the liver and stage progression of NAFLD which, untreated, can progress to NASH, fibrosis, cirrhosis and liver cancer. In 2022, over 2 billion people globally were estimated to be affected by NAFLD. The World Gastroenterology Organization considers NAFLD/NASH a global pandemic affecting rich and poor countries alike. Obesity, hepatitis, and diabetes are leading contributors to the development of NAFLD.

Left untreated, an estimated 30% of NAFLD cases progress to NASH, a condition in which liver fat causes inflammation and decreased liver function, possibly resulting in fatigue, weight loss, muscle pain and abdominal pain. Excess liver fat remains a root cause of and key clinical concern for both NASH and NAFLD.

Approximately 25% of NASH cases progress to liver fibrosis, in which liver inflammation causes scar tissue which eventually prevents the liver from functioning properly. The scar tissue blocks the flow of blood through the liver and slows the processing of nutrients, hormones, drugs, and naturally produced toxins. It also slows the production of proteins and other substances made by the liver. Once a patient develops cirrhosis of the liver, the only life-saving therapy is a liver transplant. Additionally, cirrhosis patients may develop liver cancer. In January 2023, the American Cancer Society estimated that liver cancer kills over 700,000 people annually. Because of the increased incidence of obesity, hepatitis and diabetes throughout the world, NAFLD has become the most common chronic liver disease and an important cause of cirrhosis and liver cancer worldwide.

Despite the increased incidence of NAFLD and its role in the development of NASH, cirrhosis and liver cancer, we believe that no low-cost, accurate and safe method exists for measuring fat in the liver. Current liver enzyme blood tests are indicative, but cannot reliably confirm early stage NAFLD or NASH, and liver enzyme levels are normal in a large percentage of patients with NAFLD. Existing ultrasound technology can only measure fat qualitatively in the liver at moderate to severe levels, typically greater than 30% liver fat, and ultrasound has low accuracy when used on obese patients. While early stage NAFLD and NASH can be confirmed by an MRI scan, an MRI scan is expensive, and MRI systems are not widely available or practical for many patients. A surgical biopsy can be used to confirm NAFLD and NASH, but is also expensive, involves a painful procedure and exposes patients to the risk of infection and bleeding. Furthermore, MRIs and surgical biopsies are impractical for repeated screening and monitoring of liver disease. We believe these limitations negatively impact the diagnosis and treatment of patients with NAFLD.

Billions of dollars are spent annually on the global diagnosis and treatment of NAFLD and related liver diseases. In the United States, annual direct medical costs for NAFLD were estimated in 2016 to be \$103 billion, and in the Europe-4 countries (Germany, France, Italy, and United Kingdom), about €35 billion. Patients diagnosed with NAFLD and related liver diseases are typically treated with available therapies such as statins, insulin sensitizers and other compounds and are encouraged to adopt lifestyle changes to reduce their weight and improve their overall health. Glucagon-like peptide 1 (GLP-1) agonists, used for the treatment of type 2 diabetes and obesity are also being evaluated in connection with the reduction of liver fat.

In addition, patients receiving treatment for NAFLD-spectrum liver diseases must continue to be monitored to assess disease progression and the efficacy of treatment. Because of the high cost and limited global availability, CT and MRI technology is not typically used for this function.

We believe our TAEUS technology will enable primary care physicians, radiologists and hepatologists to diagnose NAFLD earlier and monitor patients with NAFLD-spectrum liver diseases more accurately and cost-effectively than is possible with existing technology.

## Potential Licensing and Partnership Opportunities

A pipeline of 20+ pharmaceutical compounds targeting liver disease are in development by companies such as Viking Therapeutics, Inventiva, Madrigal Pharmaceuticals, Inc., Akero Therapeutics and Regeneron Pharmaceuticals. The pharmaceutical industry's increased presence in the liver disease space represents a synergistic opportunity for ENDRA, as early detection of NAFLD could enable prescription of drug treatment at the most advantageous time for patients. The companies can also benefit from simpler, non-invasive measurements of biomarkers, such as liver fat, in the clinical stage. To this end, in March 2021, ENDRA announced a collaboration agreement with Hepion Pharmaceuticals to incorporate TAEUS as an add-on technology to support Hepion's patient screening and biomarker measurements during its Phase 2b study of its lead drug candidate, and is working with Hepion to identify a target site at which to utilize TAEUS.

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In April 2016, we entered into a Collaborative Research Agreement with GE Healthcare. Under the terms of the agreement, GE Healthcare has agreed to assist us in our efforts to commercialize our TAEUS technology for use in a fatty liver application by, among other things, providing equipment and technical advice, and facilitating introductions to GE Healthcare clinical ultrasound customers. In return for this assistance, we have agreed to afford GE Healthcare certain rights of first offer with respect to manufacturing and licensing rights for the target application. More specifically, we have agreed that, prior to commercially releasing our NAFLD TAEUS application, we will offer to negotiate an exclusive ultrasound manufacturer relationship with GE Healthcare for a period of at least one year of commercial sales. The commercial sales would involve, within our sole discretion, either our commercially selling GE Healthcare ultrasound systems as the exclusive ultrasound system with our TAEUS fatty liver application embedded, or GE Healthcare being the exclusive ultrasound manufacturer to sell ultrasound systems with our TAEUS fatty liver application embedded. The agreement with GE Healthcare does not prevent us from selling our TAEUS fatty liver application technology to distributors or directly to non-manufacturer purchasers. Additionally, the agreement provides that (1) prior to offering to license any of our TAEUS fatty liver application intellectual property to a third party, we will first offer to negotiate to license our TAEUS fatty liver application intellectual property to SE Healthcare and (2) prior to selling any equity interests to a healthcare device manufacturer, we must first offer to negotiate in good faith to sell such equity interests to GE Healthcare. The agreement is subject to termination by either party upon not less than 60 days' notice. On December 16, 2022, we and GE Healthcare entered into an amendment to our agreement, extending its term to December 16, 2024.

## Clinical Studies

In 2018, we received authorization to commence the first human studies in healthy volunteers with our TAEUS clinical system targeting NAFLD, guiding our algorithm development, and comparing our technology to MRI. The feasibility study was conducted in collaboration with the Robarts Research Institute in London, Canada. We reported the completion of this 50-subject study and top-level findings in September 2019. The data collected from the study, including additional usability inputs, was included in our TAEUS liver device technical file submission for device CE mark. Additionally, in 2019, we entered into clinical evaluation agreements with Rocky Vista University College of Osteopathic Medicine (RVUCOM) and the University of Pittsburgh Medical Center (UPMC) and in 2020 with the Medical College of Wisconsin (MCW), Universitätsmedizin der Johannes Gutenberg-Universität Mainz and Centre Hospitalier Universitaire d'Angers, France (CHU Angers). In 2021, we established clinical evaluation agreements with Inselspital University

Hospital in Bern, Switzerland, and King's College Hospital - London, in the United Kingdom. In 2022, we established a clinical collaboration with Shanghai General Hospital (China). As of December 31, 2023, the Company had in effect seven clinical evaluation agreements.

#### Commercialization

We received CE mark approval for our TAEUS FLIP (Fatty Liver Imaging Probe) system in March 2020, indicating that the TAEUS FLIP system complies with all applicable European Directives and Regulations in the European Union ("EU") and other CE mark geographies, including the 27 EU member states. In support of our commercialization efforts in the EU, we have a full time sales representative in each of France, the United Kingdom, and Germany and expect to expand marketing efforts into other CE markets as we grow. We actively attend various trade shows and clinical conferences across the UK and EU to drive our marketing presence amongst medical professionals that constitute our target market. We have also entered into agreements with clinical evaluation sites in Switzerland, Germany, UK and France to collect clinical evidence with the aim to underscore the clinical utility of the TAEUS device for assessing NAFLD.

We are pursuing FDA premarket clearance of our TAEUS FLIP system to enable sales in the United States. See further discussion above in "Item 1. Business – Overview."

#### Other Potential Clinical Applications for our TAEUS Technology

## Temperature Monitoring of Thermoablative Surgery

We also intend to develop a TAEUS platform application to guide thermal ablation surgery, such as in the treatment of cardiac atrial fibrillation, chronic pain and lesions of the liver, thyroid, kidneys and other soft tissues. We plan to target clinical users of thermoablative technology, including interventional radiologists, cardiologists, gynecologists and surgical oncologists.

Thermoablation involves the use of heat or cold to remove malfunctioning or diseased tissue in surgical oncology, cardiology, neurology, gynecology, urology and cosmetology applications. Thermoablative technologies include RF, microwave, laser and cryogenic ablation. The global radiofrequency ablation devices market size was valued at approximately \$3.6 billion in 2021 and is expected to surpass \$10.2 billion by 2030, representing a CAGR of 11% during the forecast period (2022-2030).

However, RF and other thermoablative surgery technologies pose risks, including under-treatment of diseased tissue and unintended thermal damage to areas outside the treatment area. For example, it has been reported that patients receiving RF ablation of liver tumors have experienced thermal injury to the diaphragm, gallbladder, bile ducts and gastrointestinal tract, some of which have resulted in patient deaths.

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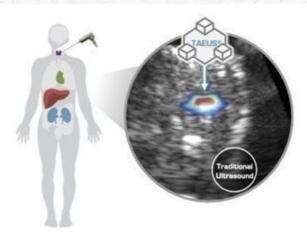
Clinicians must rely on printed manufacturer guidelines to plan procedures using thermal ablation technologies or, when available, monitor tissue temperature changes in real-time with MRI imaging or surgical temperature probes. We believe these existing methods either lack real-time precision or are impractical due to cost, poor availability and other factors.

We believe that the ability to visualize changes in tissue temperature in real time could potentially enhance the effectiveness and safety of thermoablation therapies and that our TAEUS technology platform combined with traditional ultrasound has the potential to guide thermoablation surgery more cost-effectively and more accurately than existing methods.

Image below: Depiction of ex-vivo TAEUS tissue temperature analysis overlaid on traditional ultrasound image.

# Future TAEUS Application: Guidance of Energy-Based Therapies

SHOW HEAT OR COLD SIGNATURE OF THERMO-ABLATIVE PROCEDURES FOR CANCER, CARDIOLOGY, PAIN, COSMETOLOGY



ENDRA

#### Vascular Imaging

We believe that our TAEUS technology can be used to image blood vessels and distinguish them from the surrounding tissue. In addition to our NAFLD and thermoablation applications, we intend to develop a cardiovascular application based on our TAEUS technology that, with the use of a standard saline contrast agent, can enable existing ultrasound systems to perform a number of cardiovascular diagnostic functions, such as identifying arterial plaque or blocked or malformed vessels, as well as safely guiding biopsies away from vital vasculature.

Conventional ultrasound imaging systems use Doppler imaging in a variety of vascular applications. Doppler ultrasound, which images the velocity of blood, is effective in larger vessels and regions where blood velocity is high. However, Doppler ultrasound is not sufficiently sensitive for use in very small vessels or in vascular imaging applications where blood velocities are very low. For these applications, contrast enhanced CT and MRI angiography is used which requires the patient to be injected with a contrast agent, iodinated compounds and gadolinium, respectively. Contrast-enhanced CT and MRI scans both require referral for examination after initial screening with ultrasound and carry risks associated with their respective contrast agents. We believe that our TAEUS platform has the potential to offer the advantages of CT and MR contrast enhanced imaging at the point of care using only a safe electrolyte solution as the contrast agent.

#### Tissue Perfusion or "Leakiness"

We believe that our TAEUS technology can be used to image tissue perfusion, or the absorption of fluids into an organ or tissue. We intend to develop an application for our TAEUS platform that would enable ultrasound detection of microvasculature fluid flows symptomatic of tissue compromised by trauma or disease.

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When a person's body is affected by disease or trauma, blood and other fluids may leak from damaged tissues in subtle ways. Traditional ultrasound cannot effectively image these disruptions in microvascular permeability, but we believe ultrasound combined with our TAEUS technology can.

We believe that, using our TAEUS technology, physicians will be able to quickly and clearly see tissue compromised by disease, such as cancer or trauma, especially with the use of a standard saline contrast agent, when CT or MRI is not readily available.

## **Intellectual Property**

We rely on a combination of patent, copyright, trademark and trade secret laws and other agreements with employees and third parties to establish and protect our proprietary intellectual property rights. We require our officers, employees and consultants to enter into standard agreements containing provisions requiring confidentiality of proprietary information and assignment to us of all inventions made during the course of their employment or consulting relationship. We also enter into nondisclosure agreements with our commercial counterparties and limit access to, and distribution of, our proprietary information.

We are committed to developing and protecting our intellectual property and, where appropriate, filing patent applications to protect our technology. Our issued and pending patents claims are directed at the following areas related to our technology:

- · Methods to induce and enhance thermoacoustic signal generation;
- System configurations, devices and novel hardware for transmission of RF pulses into tissue and detection of acoustic signals;
- · Methods for integrating our devices with existing conventional ultrasound systems; and
- · Methods and algorithms for signal processing, image formation and analysis.

As of December 31, 2023, we maintained a patent portfolio consisting of forty (40) patents issued in the United States and thirty-two (32) issued patents in foreign jurisdictions, four (4) patent applications pending in the United States and twenty-three (23) patent applications pending internationally relating to our technology. These patents and patent applications largely cover certain innovations relating to fat imaging, fat quantitation, and temperature monitoring in the liver and other tissues.

Each of our utility patents generally has a term of 20 years from its respective priority (earliest filing) date. Design patents have a term of 14 years from the filing date of the respective application. Among our issued utility patents in the U.S., the first patent is set to expire in 2033 and the last patent is set to expire in 2041.

In November 2023, we engaged PatentVest, Inc. ("PatentVest"), a specialized consulting firm focused on intellectual property valuation, intellectual property portfolio management and intellectual property M&A for clients seeking to protect and leverage their intellectual property portfolio for growth. Pursuant to a Consulting Services Agreement (the "Services Agreement") between the Company and PatentVest, PatentVest will undertake a comprehensive assessment of our technology and intellectual property portfolio and work with the Company to create an intellectual property strategy and corresponding plan. Pursuant to the Services Agreement, the Company agreed to pay PatentVest strictly through the issuance of restricted shares of the Company's common stock.

# **Sales and Marketing**

In parallel to securing all necessary government marketing approvals, we have hired a small sales and marketing team to engage and support channel partners and clinical customers in primary geographic markets - initially in France, the UK, and Germany, expected to be followed in the U.S. after FDA approval. We also intend to partner with several geographically-focused independent medical device equipment distributors to market and sell our TAEUS applications in secondary markets. For instance, we have entered into a distribution agreement with a third-party covering future sales in Vietnam. We believe that these distributors have existing customer relationships, a strong knowledge of diagnostic imaging technology and the capabilities to support the installation, customer training and post-sale service of capital equipment and software.

We also intend to work with original equipment manufacturers, or OEMs, of capital medical equipment (e.g., ultrasound equipment and thermal ablation equipment) to sell our TAEUS technology alongside their own new systems and into their existing installed base systems. We believe that these OEMs will find our applications attractive as the applications could enable them to generate additional revenue from their installed systems - as they currently do with aftermarket accessory portfolios.

Based on our design work and our understanding of the medical capital equipment market, we intend to price our initial liver TAEUS system at a price point of approximately \$65,000, which we believe could enable clinical purchasers to recoup their investment in less than one year by performing a relatively small number of additional procedures, initially paid out-of-pocket by patients until government and private insurance reimbursement is secured for the TAEUS liver procedures.

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Some of our future TAEUS offerings are expected to be implemented via a hardware platform that can run multiple individual software applications that we plan to offer TAEUS users for a one-time licensing fee, enabling users to perform more procedures with their existing ultrasound equipment and retaining more patients in their clinics rather than referring them out to a regional imaging medical center for a CT or MRI scan.

We also intend to offer a license for our TAEUS technology to OEMs, such as ultrasound and thermoablative capital equipment makers, for incorporation in their new capital equipment systems.

#### **Engineering, Design and Manufacturing**

#### **Development of TAEUS Device**

We contracted with StarFish Product Engineering, Inc. ("StarFish"), a medical device contract manufacturing company, to develop ENDRA's prototype TAEUS device into a clinical product that met CE regulatory requirements required for regulatory clearance in the EU. We leveraged StarFish's expertise for the preparation and submission of our CE Technical File documentation, submitted in December 2019, which enabled us to secure the CE Mark for the TAEUS liver application in March 2020. We also leveraged StarFish's expertise for preparation of documentation for the 510(k) submission made to the FDA in June 2020 and our de novo submission to the FDA in the third quarter of 2023. The relationship with StarFish has expanded and now Starfish is our designated contract manufacturing partner for the TAEUS® liver system. As the contract manufacturer, StarFish sources components internally or via third party suppliers.

## Regulatory Approval Pathway and Human Study

Each of our TAEUS platform applications will require regulatory approvals before we are able to sell or license the application. Based on certain factors, such as the installed base of ultrasound systems, availability of other imaging technologies, such as CT and MRI, economic strength and applicable regulatory requirements, we sought initial approval of our applications for sale in the European Union, followed by the United States and plan to seek additional approval in China.

The first TAEUS application we intend to commercialize is our NAFLD TAEUS application. Our initial target market for this application is the European Union. For commercial reasons and to support our application for CE marking, we contracted with CIMTEC, a medical imaging research group, to conduct human studies through Canada-based Robarts Research Institute to demonstrate our NAFLD TAEUS application's ability to distinguish fat from lean tissue. In September 2019, we announced the completion and reported top-level findings of Robarts Research Institute's initial healthy subject study and data collection of 50 subjects, which was included in our TAEUS liver device technical file submission for device CE mark. We received CE mark approval for our NAFLD TAEUS application in March 2020. We have registered the product in each target EU market.

In May 2021, Regulation (EU)2017/745 on medical devices (the "Medical Device Regulation" or "MDR") came into effect. The MDR amended the prior existing regulatory framework in the EU and imposes significant additional obligations on medical device-related companies. Changes imposed by the MDR include more restrictive requirements for clinical evidence and pre-market assessment of safety and performance, revised classifications to indicate risk levels, stricter requirements for third party testing by government accredited groups for some types of medical devices, and tightened and streamlined quality management system assessment procedures, including post marketing surveillance obligations. These new rules also impose additional requirements on our business, such as a requirement to conduct clinical trials to maintain our existing and obtain new or renewed conformity assessment certification for existing and new products. Also, the MDR provides for additional post-market surveillance obligations, and further requirements for the traceability of products, transparency, refined responsibilities for economic operators (including manufacturer, distributors and importers) as well as a tightened and more comprehensive quality management system.

In March 2020, we received a positive certification from a government-accredited group ("Notified Body") for our NAFLD TAEUS application, enabling us to market this application in the EU with the necessary CE Mark. The certification, which has been issued under the then applicable framework of the Medical Device Directive but taking into consideration the transitionary provisions of the MDR, should initially expire in May 2024 and re-certification under the MDR will be required in order to continue marketing of the application in the EU. However, there is currently a significant lag for recertification of medical devices under the MDR, due to the requirement to have the competent Notified Bodies be re-designated for purposes of the MDR, as there is a shortage of available Notified Bodies that have already been re-designated for all the medical devices requiring (re-)certification. In light of this development, in February 2023, the European Parliament adopted a Regulation to amend the MDR transition period and to remove the sell-off provisions in the MDR. Specifically, through the newly adopted Regulation the validity of the CE certification for Class I, Class IIa and certain Class IIb devices (which includes ENDRA's Class IIa device) has been extended until December 31, 2028, subject to certain conditions (including, among others, continued compliance with the MDR, no significant changes to design or intended purpose, a quality management system, and engagement with a Notified Body to obtain conformity assessment). ENDRA is working with its Notified Body to ensure a timely MDR CE Mark transition, while aligning to the extended transition deadline.

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In June 2020, we submitted to the FDA our application under the Federal Food, Drug and Cosmetic Act (the "FD&C Act") to sell our NAFLD TAEUS application in the United States. The application was submitted for clearance under Section 510(k) of the FD&C Act. Following meetings with the FDA in connection with its review of our application, we determined that the 510(k) pathway was not the optimal option due to the novel nature of our TAEUS system and, in February 2022, announced that we would pursue the "de novo" pathway to request the classification of our NAFLD TAEUS application as a Class II device, as described below under "FDA Approval or Clearance of Medical Devices". In the third quarter of 2023, we submitted a de novo request

to the FDA that included as support clinical data gathered from human studies comparing liver fat measurements by our TAEUS device to measurements by MRI-PDFF. In the fourth quarter of 2023, the FDA sent us an AI request related to our de novo application. Since we received the AI request, we have had several interactions with the FDA and have provided additional information. In order to fully respond to the FDA's questions, we will need to compile additional clinical data, provide additional device test data, and respond to cybersecurity related questions in a new de novo submission. We have a scheduled in-person pre-submission meeting with the FDA in the second quarter of 2024. We currently anticipate completing the necessary clinical studies by the fourth quarter of 2024 and submitting the new de novo request to the FDA in the first half of 2025.

We expect that, should we be successful in obtaining the FDA's grant of our de novo request, we will have clearance to market the liver fat fraction TAEUS application in the U.S. with specific tissue fat content claims. However, we will need to obtain additional FDA clearances to be able to make diagnostic claims for fatty tissue content determination. Accordingly, to support our commercialization efforts we expect that, following receipt of the FDA's grant of our initial de novo request, we would submit one or more additional applications to the FDA, each of which would need to include additional clinical trial data, so that following receipt of the necessary clearances we may make those diagnostic claims. We believe these additional applications will be eligible for submission under Section 510(k) following the reclassification that would be established by the FDA's grant of the de novo request for our liver fat fraction TAEUS device.

#### Regulation

## European Union

The primary regulatory environment in Europe is the European Union. In the European Union, applications incorporating our TAEUS technology are regulated as Class IIa medical devices. As described above, our NAFLD TAEUS application has received, and we expect our future applications will need to receive, a CE mark from an appropriate Competent Authority or Notified Body, as the case may be, as a result of successful review of one or more submissions prepared by our contract engineering and manufacturer(s), so that such applications can be marketed and distributed within the European Economic Area. Each of our applications will be required to be regularly recertified for CE marking, which recertification may require an annual audit. The audit procedure, which will include on-site visits at our facility, and the contract manufacturer's(s') facility(ies), will require us to provide the contract manufacturer(s) with information and documentation concerning our quality management system and all applicable documents, policies, procedures, manuals, and other information. Additionally, in order to import our devices into various EU countries, we must comply with the Restriction of Hazardous Substances Directive ("ReACH") and the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH"). We have undertaken initial processes to meet compliance with RoHS and REACH and will need to ensure that we and our suppliers are compliant with these laws to do business in the European Union.

In the European Union, the manufacturer of medical devices is subject to current Good Manufacturing Practice, or cGMP, as set forth in the relevant laws and guidelines of the European Union and its member states. Compliance with cGMP is generally assessed by a Notified Body accredited by a Competent Authority. For a Class IIa device, typically, quality system evaluation is performed by the Notified Body, which also provides the certifications necessary to fix a CE mark to the products. The Notified Body may conduct inspections of relevant facilities, and review manufacturing procedures, operating systems and personnel qualifications. In addition to obtaining approval for each application, in many cases each device manufacturing facility must be audited on a periodic basis by the Notified Body. Further inspections may occur over the life of the application.

We also must comply with data privacy regulations in the European Union and the UK. The collection and use of health data and other personal data including data collected in clinical trials is governed in the EU by the General Data Protection Regulation ("GDPR"), which imposes substantial obligations upon companies and new rights for individuals. The GDPR also forms part of the law of Great Britain (England and Wales, Scotland and Northern Ireland) by virtue of section 3 of the European Union (Withdrawal) Act 2018 and as amended by the Data Protection, Privacy and Electronic Communications (Amendments etc.) (EU Exit) Regulations 2019 (SI 2019/419) ("UK GDPR"). Failure to comply with the GDPR may result in fines of the higher of (i) €20,000,000 or (ii) 4% of the preceding fiscal year's total annual global revenues of the noncompliant company, among other administrative penalties. Although we do not expect to obtain possession of any personal data from the operation of our products, the GDPR has increased our responsibility and potential liability in relation to personal data involved in the operation of our products, and we may be required to implement additional measures in order to comply with the GDPR and with other laws, rules, regulations and standards in the EU and UK relating to privacy and data protection. This may be onerous and if our efforts to comply with GDPR or other applicable laws, rules, regulations and standards are not successful, or are perceived to be unsuccessful, it could adversely affect our business.

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# FDA Regulation

Each of our products must be approved or cleared by the FDA before it is marketed in the United States. Before and after approval or clearance in the United States, our applications are subject to extensive regulation by the FDA under the FD&C Act and/or the Public Health Service Act, as well as by other regulatory bodies. The FDA regulations govern, among other things, the development, testing, manufacturing, labeling, safety, storage, record-keeping, market clearance or approval, advertising and promotion, import and export, marketing and sales, and distribution of medical devices and pharmaceutical products.

# FDA Approval or Clearance of Medical Devices

In the United States, medical devices are subject to varying degrees of regulatory control and are classified in one of three classes depending on the extent of controls the FDA determines are necessary to reasonably ensure their safety and efficacy:

- · Class I: general controls, such as labeling and adherence to quality system regulations;
- · Class II: special controls, clearance of a premarket notification, or 510(k) submission, specific controls such as performance standards, patient registries and post-market surveillance and additional controls such as labeling and adherence to quality system regulations; and
- · Class III: special controls and approval of a premarket approval, or PMA, application.

We expect all of our products to be classified as, or subject to reclassification as, Class II medical devices and thus require FDA authorization prior to marketing by means of a 510(k) clearance or de novo request, rather than a PMA application.

To request marketing authorization by means of a 510(k) clearance, we must submit a notification demonstrating that the proposed device is substantially equivalent to another legally marketed medical device, has the same intended use, and is as safe and effective as a legally marketed device and does not raise different questions of safety and effectiveness than a legally marketed device. 510(k) submissions generally include, among other things, a description of the device and its manufacturing, device labeling, medical devices to which the device is substantially equivalent, safety and biocompatibility information and the results of performance testing. In some cases, a 510(k) submission must include data from human clinical studies. Marketing may commence only when the FDA issues an order finding substantial equivalence.

In many instances, the 510(k) pathway for product marketing requires only non-clinical testing as proof of substantial equivalence to a lawfully marketed predicate device for a given indication. However, in some instances the FDA may require clinical studies to demonstrate substantial equivalence to the predicate device. Whether clinical data is provided or not, the FDA may decide to reject the substantial equivalence argument we present. If that happens, the device is automatically designated as a Class III device, unless the sponsor requests a risk-based classification determination for the device in accordance with the "de novo" process, which may determine that the new device is of low to moderate risk and that it can be appropriately be regulated as a Class I or II device. In the de novo process, the FDA must determine that general and special controls are sufficient to provide reasonable assurance of the safety and effectiveness of a device which has no predicate. Upon receipt of a de novo request, the FDA will conduct an acceptance review to assess the completeness of the application and whether it meets the minimum threshold of acceptability. If the de novo request is accepted for substantive review, the FDA will conduct a classification review of legally marketed device types and analyze whether an existing legally marketed device of the same type exists, which information is used to confirm the subject device is eligible for de novo classification. During the course of review, the FDA may address any issues through interactive review or send a formal request for additional information in order for the review to proceed. If a de novo request is granted, the device may be legally marketed, and a new classification is established. If the device is classified as Class II, the device may serve as a predicate for future 510(k) submissions. If the device is not approved through de novo review, then it must go through the standard PMA process for Class III devices, which generally requires extensive pre-clinical and clinical trial data and involves an inspection of the manufacturer's facilities for compliance with quality system requirements as well as a review period during which an FDA advisory committee may be convened to review the application and make a recommendation to the FDA regarding its approval.

After a device receives 510(k) clearance, including following classification as a Class I or II device upon an approved de novo request, any product modification that could significantly affect the safety or effectiveness of the product, or that would constitute a significant change in intended use, requires a new 510(k) clearance. If the FDA determines that the changed product does not qualify for 510(k) clearance, then a company must submit, and the FDA must approve, a PMA before marketing can begin.

## Clinical Trials of Medical Devices

Depending on the nature of the device, one or more clinical trials may be necessary to support a 510(k) submission and, potentially, for EU CE certification, as well as generally required for PMA applications. Clinical studies of unapproved or uncleared medical devices or devices being studied for uses for which they are not approved or cleared (investigational devices) must be conducted in compliance with FDA requirements (and/or, if conducted in another jurisdiction, the applicable laws and regulations of the jurisdiction in which the trial is conducted). If an investigational device could pose a significant risk to patients, the sponsor company must submit an investigational device exemption application to the FDA prior to initiation of the clinical study. An investigational device exemption application must be supported by appropriate data, such as animal and laboratory test results, showing that it is safe to test the device on humans and that the testing protocol is scientifically sound. The investigational device exemption will automatically become effective 30 days after receipt by the FDA unless the FDA notifies the company that the investigation may not begin. Clinical studies of investigational devices may not begin until an institutional review board has approved the study.

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During the study, the sponsor must comply with the FDA's investigational device exemption requirements. These requirements include investigator selection, trial monitoring, adverse event reporting, and record keeping. The investigators must obtain patient informed consent, rigorously follow the investigational plan and study protocol, control the disposition of investigational devices, and comply with reporting and record keeping requirements. The sponsor, the FDA, or the institutional review board at each institution at which a clinical trial is being conducted may suspend a clinical trial at any time for various reasons, including a belief that the subjects are being exposed to an unacceptable risk. During the approval or clearance process, the FDA typically inspects the records relating to the conduct of one or more investigational sites participating in the study supporting the application.

# Post-Approval U.S. Regulation of Medical Devices

After a device is cleared or approved for marketing, numerous and pervasive regulatory requirements continue to apply. These include:

- the FDA's Quality Systems Regulation ("QSR"), which governs, among other things, how manufacturers design, test, manufacture, exercise quality control over, and document manufacturing of their products;
- · labeling and claims regulations, which prohibit the promotion of products for unapproved or "off-label" uses and impose other restrictions on labeling; and
- the Medical Device Reporting regulation, which requires reporting to the FDA of certain adverse experiences associated with use of the product.

# Post-Approval EU Regulation of Medical Devices

Notwithstanding the certification and the CE marking on approved medical devices, economic operators such as the manufacturers, importers or distributors of our products are subject to certain ongoing and/or post marketing obligations. These include:

the manufacturer maintaining an authorized representative in the EU;

- · maintaining an appropriate system for obtaining, reviewing, assessing and appropriately collecting and registering reports from patients, users, distributors or healthcare professionals of suspected incidents, complaints, non-confirming products, recalls and/or withdrawals;
- ensuring the traceability of all devices placed onto the market by the manufacturer, including through a unique devise identification system;
- preparing and maintaining SOPs for product withdrawal, recall or other field safety corrective and preventive actions ("CAPA") as well as maintaining a system to manage CAPA that ensures collection and evaluation of internal and external quality information, the identification of failure causes and the implementation of enduring corrective actions to eliminate failure causes and to prevent recurrence;
- · preparing of post-marketing surveillance reports and additional studies on the medical devices; and
- · regular (and, if required, ad hoc) reporting to the competent authorities in accordance with MDR.

### **Good Manufacturing Practices Requirements**

Manufacturers of medical devices are required to comply with the good manufacturing practices set forth in the QSR promulgated under Section 520 of the FD&C Act. The QSR requires, among other things, quality control and quality assurance as well as the corresponding maintenance of records and documentation. The manufacturing facility for an approved product must be registered with the FDA and meet QSR requirements to the satisfaction of the FDA pursuant to a pre-PMA approval inspection before the facility can be used. Manufacturers, including third party contract manufacturers, are also subject to periodic inspections by the FDA and other authorities to assess compliance with applicable regulations. Failure to comply with statutory and regulatory requirements subjects a manufacturer to possible legal or regulatory action, including the seizure or recall of products, injunctions, consent decrees placing significant restrictions on or suspending manufacturing operations, and civil and criminal penalties. Adverse experiences with the product must be reported to the FDA and could result in the imposition of marketing restrictions through labeling changes or in product withdrawal. Product approvals or clearances may be withdrawn if compliance with regulatory requirements is not maintained or if problems concerning safety or efficacy of the product occur following the approval.

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#### China Regulation

China's regulatory approval framework includes nationwide approval based on a showing that the device for which approval is sought has been previously approved in the country of origin. Alternatively, we understand it is also possible to receive approval at the provincial level or to work exclusively with hospitals that do not require such nationwide or provincial approval. We intend to explore these potential paths to regulatory compliance in China.

## Other Regulations

We and our contractors must comply with numerous federal, state and local laws relating to matters such as safe working conditions, manufacturing practices, environmental protection, fire hazard control, and hazardous substance disposal. Furthermore, we are subject to various reporting requirements including those prescribed by the Affordable Care Act and the Dodd-Frank Wall Street Reform and Consumer Protection Act. We cannot be sure that we will not be required to incur significant costs to comply with these laws and regulations in the future or that these laws or regulations will not adversely affect our business, financial condition, and results of operations. Unanticipated changes in existing regulatory requirements or the adoption of new requirements could adversely affect our business, financial condition, and results of operations.

We are also become subject to regulations and product registration requirements in foreign countries in which we have received approval may sell our TAEUS liver device, including in the areas of product standards, packaging requirements, labeling requirements, import and export restrictions and tariff regulations, duties and tax requirements. Additionally, third parties designing, manufacturing or conducting human studies of our devices are subject to local regulations, such as those of Health Canada. The time required to obtain clearance required by foreign countries may be longer or shorter than that required for EMA or FDA clearance, and requirements for licensing a product in a foreign country may differ significantly from EMA and FDA requirements.

## Environmental

Our manufacturing processes involve the use, generation, and disposal of hazardous materials and wastes, including alcohol, adhesives, and cleaning materials. As such, we are subject to stringent federal, state, and local laws relating to the protection of the environment, including those governing the use, handling, and disposal of hazardous materials and wastes. Future environmental laws may require us to alter our manufacturing processes, thereby increasing our manufacturing costs. We believe that our products and manufacturing processes at our facilities comply in all material respects with applicable environmental laws. However, the risk of environmental liabilities cannot be completely eliminated.

## **Competition**

While we believe that we are the only company developing RF-based thermoacoustic ultrasound products, we face direct and indirect competition from a number of competitors, many of whom have greater financial, sales and marketing and other resources than we do, and offer alternatives to RF-based thermoacoustic technology for measuring the fat content of liver with ultrasound machines.

Manufacturers of CT and MRI systems include multi-national corporations such as Royal Philips, Siemens AG and Fujifilm Corporation, many of whom also manufacture and sell ultrasound equipment. In the NAFLD diagnosis market we will compete with makers of surgical biopsy tools, such as Cook Medical and Sterylab S.r.l. In the thermal ablation market, we will compete with manufacturers of surgical temperature probes, such as Medtronic plc and St. Jude Medical, Inc.

## **Employees**

As of December 31, 2023, we had 21 employees, all of whom are employed on a full-time basis. Twelve full-time employees were engaged in research and development activities, three full-time employees were engaged in sales activities, three full-time employees were engaged in research and three

full-time employees were engaged in administrative activities. Geographically, we employ fifteen people in the United States, three people in Canada, one person in France, one person in Germany and one person in the United Kingdom. None of our employees are covered by a collective bargaining agreement, and we believe our relationship with our employees is good.

We also employ technical advisors, on an as-needed basis, to supplement existing staff. We believe that these technical advisors provide us with necessary expertise in clinical ultrasound applications, ultrasound technology, and intellectual property.

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#### Item 1A. Risk Factors

Investing in our common stock involves a high degree of risk. You should carefully consider the following risks and all other information contained in this Annual Report, including our financial statements and the related notes, before investing in our securities. The risks and uncertainties described below are not the only ones we face but include the most significant factors currently known by us that make investing in our securities speculative or risky. Additional risks and uncertainties that we are unaware of, or that we currently believe are not material, also may become important factors that affect us. If any of the following risks materialize, our business, financial condition and results of operations could be materially harmed. In that case, the trading price of our securities could decline, and you may lose some or all of your investment.

#### RISK FACTOR SUMMARY

Below is a bulleted summary of our principal risk factors, however this list does not fully represent all of our known risk factors. We encourage you to carefully review the full risk factors contained in this Annual Report in their entirety for additional information regarding the material factors that make an investment in our securities speculative or risky. These risks and uncertainties include, but are not limited to, the following:

#### Risks Related to our Business

- We have a history of operating losses, we may never achieve or maintain profitability, and we will need to raise significant additional capital if we are going to continue as a going concern.
- · Our efforts may never result in the successful development of commercial applications based on our TAEUS technology, on which our success is substantially dependent.
- · Our TAEUS platform applications may not achieve adequate market acceptance by the physicians, patients, third-party payors and others in the medical community.
- The outbreak of pandemics, such as COVID-19, could adversely impact our business, including our pre-sales activities, clinical trials and ability to obtain regulatory approvals.
- We may not remain commercially viable if there is an inadequate level of reimbursement by governmental programs and other third-party payors for our planned products or associated procedures.
- We have limited resources and depend on third parties to design and manufacture, and seek regulatory approval of, our TAEUS applications.
- · We will need to develop marketing and distribution capabilities both internally and through our relationships with third parties in order to sell any of our TAEUS products receiving regulatory approval.
- · Competition in the medical imaging market is intense and we may be unable to successfully compete.
- We market our TAEUS liver device in the EU and are subject to the risks of doing business outside of the United States.
- · 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.
- · Misdiagnosis, warranty and other claims, as well as product field actions and regulatory proceedings, initiated against us could increase our costs, delay or reduce our sales and damage our reputation.

## Risks Related to Intellectual Property and Other Legal Matters

- · If we are unable to protect our intellectual property, which entails significant expense and resources, then our financial condition, results of operations and the value of our technology and products could be adversely affected.
- · Policing unauthorized use of our proprietary rights can be difficult, expensive and time-consuming, and we might be unable to determine the extent of this unauthorized use.
- Intellectual property rights may not provide adequate protection, which may permit third parties to compete against us more effectively.

## **Risks Related to Government Regulation**

- · If we fail to obtain and maintain necessary regulatory clearances or approvals for our TAEUS applications, or if clearances or approvals for future applications and indications are delayed or not issued, our commercial operations will be harmed.
- · Healthcare reform measures could hinder or prevent our planned products' commercial success.

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#### **Risks Related to Owning Our Securities**

- · Our quarterly and annual results may fluctuate significantly, may not fully reflect the underlying performance of our business and may result in volatility in the price of our securities.
- · Our stock price has fluctuated in the past, has recently been volatile and may be volatile in the future for reasons unrelated to our operating performance or prospects, and as a result, investors in our common stock could incur substantial losses.
- We may be subject to securities litigation, which is expensive and could divert management attention.
- If we are unable to implement and maintain effective internal control over financial reporting, including by remediating current material weaknesses in our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our securities may decrease.
- · Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.
- Future sales and issuances of our common stock or rights to purchase common stock, including pursuant to our at-the-market offering program or equity incentive plan, could result in dilution of the percentage ownership of our stockholders and could cause the price of our securities to fall.
- Our charter documents and Delaware law may inhibit a takeover that stockholders consider favorable.

#### **General Risk Factors**

- · Our business is affected by macroeconomic conditions.
- · Our cash and cash equivalents could be adversely affected if the financial institutions in which we hold our cash and cash equivalents fail.
- The ongoing military action in Ukraine and the Middle East could have negative impact on the global economy, which could materially adversely affect our business, operations, operating results and financial condition.
- Our business could be negatively impacted by corporate social responsibility and sustainability matters.

## **Risks Related to Our Business**

We have a history of operating losses and will need to raise significant additional capital to continue our business and operations. If we are unable to raise capital or secure financing on favorable terms, or at all, to meet our capital and operating needs, we will be forced to delay or reduce our product development program and commercialization efforts, which would have a material adverse effect on our business.

We are experiencing financial and operating challenges. We have only generated limited revenues to date and have a history of losses from operations. As of December 31, 2023, we had an accumulated deficit of \$91.9 million. Our independent registered public accounting firm, in its report on our financial statements for the year ended December 31, 2023, has raised substantial doubt about our ability to continue as a going concern. To remain viable, we will require additional capital in the near term to proceed with the commercialization of our planned TAEUS applications and to meet our growth targets. Our near-term capital needs include supporting the hiring of personnel, payroll and benefits, continued scientific and potential product research and development, clinical studies to support our FDA de novo submission, expenses associated with the development of relationships with strategic partners, intellectual property development and prosecution, funding the costs of seeking regulatory approval of TAEUS applications, expanding our sales and marketing infrastructure, capital expenditures, working capital, responses to business opportunities, and general and administrative expenses.

We are actively exploring additional sources of liquidity and may seek to raise such capital through, among other means, public or private equity offerings (including sales of our common stock under our at-the-market equity offering program), debt financings, corporate collaborations and/or licensing arrangements. However, general market conditions or the market price of our common stock may not support these capital raising transactions on terms favorable to us, or at all. If we are unable to obtain adequate financing or financings on terms satisfactory to us when we require it, we will be forced to undertake capital preservation measures that may include delaying or reducing our product development programs and commercialization efforts, materially curtailing or eliminating our operations, selling or disposing of our rights or assets, pursuing a sale or other strategic transactions, or undergoing restructuring or insolvency proceedings. Factors that could limit our ability to raise additional capital after this offering include, among other matters:

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- the expectation that we will continue to incur losses and generate negative cash flows from operations;
- our substantially limited liquidity and capital resources to meet our obligations as they become due;
- the potential that our common stock will be delisted by Nasdaq in the event we fail to maintain compliance with the minimum bid price requirement; and

risks and uncertainties that are described in more detail in the Risk Factors and Management's Discussion and Analysis of Financial Condition and Results of Operations sections in this Annual Report on Form 10-K.

To date, we have financed our operations through the net proceeds from offerings of common and preferred stock, warrants and convertible notes. Our future funding requirements will depend on many factors, including, but not limited to:

- the costs, timing and outcomes of regulatory reviews associated with our future products, including TAEUS applications;
- the progress, timing, costs and outcomes of our clinical studies, including the ability to timely enroll patients in such clinical trials;
- the costs and expenses of expanding our sales and marketing infrastructure;
- the costs and timing of developing variations of our TAEUS applications and, if necessary, obtaining regulatory clearance of such variations;
- the degree of success we experience in commercializing our products, particularly our TAEUS applications;
- the extent to which our TAEUS applications are adopted by hospitals for use by primary care physicians, hepatologists, radiologists and oncologists for diagnosis of fatty liver disease and the thermal ablation of lesions;
- the number and types of future products we develop and commercialize;
- the costs of preparing, filing and prosecuting patent applications and maintaining, enforcing and defending intellectual property-related claims;
- the extent and scope of our general and administrative expenses;
- the outcome, timing and cost of regulatory approvals, including the potential that the FDA or comparable regulatory authorities may require that we perform more studies than those that we currently expect;
- the amount of sales and other revenues from technologies and products that we may commercialize, if any, including the selling prices for such potential products and the availability of adequate third-party reimbursement;
- the terms and timing of any potential future collaborations, licensing or other arrangements that we may establish;
- · cash requirements of any future acquisitions and/or the development of other products;
- the costs of operating as a public company;
- the cost and timing of completion of commercial-scale, outsourced manufacturing activities; and
- the time and cost necessary to respond to technological and market developments.

# Our TAEUS platform applications may not achieve adequate market acceptance by physicians, patients, third-party payors and others in the medical community.

Our TAEUS applications that receive regulatory approval may nonetheless fail to gain sufficient market acceptance by physicians, patients, third-party payors and others in the medical community. If our TAEUS applications do not achieve an adequate level of acceptance, we may not generate significant product revenues or any profits from sales. The degree of market acceptance of products based on our TAEUS platform will depend on a number of factors, including:

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- · potential or perceived advantages or disadvantages compared to alternative products;
- · pricing relative to competitive products and availability of third-party coverage or reimbursement;
- the timing of bringing our product to market as compared to possible other new entrants to the market;
- our ability to effectively raise market awareness and explain product benefits and whether we have resources sufficient to do so;
- · relative convenience, dependability and ease of administration; and
- willingness of the target patient population to try new products and of physicians to utilize such products.

Our revenues will be adversely affected if, due to these or other factors, the products we are able to commercialize do not gain significant market acceptance.

Public health crises, such as COVID-19 or other similar pandemics in the future, can adversely impact our business, including our pre-sales activities, clinical trials and ability to obtain regulatory approvals.

Public health crises such as pandemics or similar outbreaks could adversely impact our business. For instance, the COVID-19 pandemic impacted our clinical trial activities by delaying patient enrollment and visits due to the prioritization of hospital resources toward the COVID-19 outbreak, travel restrictions, and the inability to access sites for initiation and monitoring. In addition, the COVID-19 pandemic had an effect on the business at the FDA and other health authorities by causing them to reallocate resources to addressing the pandemic, which resulted in delays of reviews and approvals of

submissions such as that for our NAFLD TAEUS application. The level and nature of the disruption caused by COVID-19 and any other pandemic is unpredictable, may be cyclical and long-lasting and vary from location to location.

We may not remain commercially viable if there is an inadequate level of reimbursement by governmental programs and other third-party payors for our planned products or associated procedures.

Medical imaging products are purchased principally by hospitals, physicians and other healthcare providers around the world that typically bill various third-party payors, including governmental programs (e.g., Medicare and Medicaid in the United States), private insurance plans and managed care programs, for the services provided to their patients.

Third-party payors and governments may approve or deny coverage for certain technologies and associated procedures based on independently determined assessment criteria. Reimbursement decisions by payors for these services are based on a wide range of methodologies that may reflect the services' assessed resource costs, clinical outcomes and economic value. These reimbursement methodologies and decisions confer different, and sometimes conflicting, levels of financial risk and incentives to healthcare providers and patients, and these methodologies and decisions are subject to frequent refinements. Third-party payors are also increasingly adjusting reimbursement rates, often downwards, indirectly challenging the prices charged for medical products and services. There can be no assurance that our products will be covered by third-party payors, that adequate reimbursement will be available or, even if payment is available, that third-party payors' coverage policies will not adversely affect our ability to sell our products profitably.

We have limited data regarding the efficacy of our TAEUS platform applications. If any of our applications that receive regulatory approval do not perform in accordance with our expectations, we are unlikely to successfully commercialize our applications.

Although we have completed a number of studies with respect to our TAEUS liver device, we have limited data regarding the efficacy of other TAEUS platform applications. Since our success depends in large part on the medical and third-party payor community's acceptance of our TAEUS applications, even if we receive regulatory approval for our applications, we believe that we will need to obtain additional clinical data from users of our applications to persuade medical professions to use our applications. We may also be required to conduct post-approval clinical testing to obtain such additional data. Clinical testing is expensive, can take a significant amount of time to complete and can have uncertain outcomes. Negative results of these clinical studies could have a material, adverse impact on our business.

We cannot be certain that results from limited human studies of our TAEUS liver device will be indicative of future studies or that any of our TAEUS applications will be successfully commercialized.

To successfully commercialize any application based on our TAEUS platform technology, we expect it will be necessary to conduct various pre-clinical and human studies to demonstrate that the product is safe and effective for human use. For instance, we have conducted a number of human studies with respect to our TAEUS liver device. These studies have initially demonstrated a meaningful correlation between the measurement of liver fat by our TAEUS FLIP product and by MRI-PDFF. However, there can be no assurance that results from these studies are indicative of results that would be achieved in future studies of this or any future TAEUS applications, which may be required in order for our applications incorporating our technology to obtain or maintain regulatory approval. Even if clinical trials or other studies demonstrate the safety and effectiveness of any applications of our technology and the necessary regulatory approvals are obtained, the commercial success of any of such application will depend upon their acceptance by patients, the medical community, and third-party payers and on our partners' ability to successfully manufacture and commercialize a device for such application.

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Our limited commercial experience makes it difficult to evaluate our business, predict our future results or forecast our financial performance and growth.

We discontinued our initial pre-clinical Nexus 128 product in 2019 and our TAEUS liver device has obtained CE mark approval but has not yet been fully commercialized. This limited commercial experience makes it difficult to evaluate our business, predict our future results or forecast our financial performance and growth. 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.

We have formed, and may in the future form or seek, strategic alliances and collaborations or enter into licensing arrangements, and we may not realize the benefits of such alliances, collaborations or licensing arrangements.

In April 2016, we entered into a Collaborative Research Agreement with GE Healthcare, under which GE Healthcare has agreed to support our efforts to commercialize our TAEUS technology for use in an NAFLD application by, among other things, providing equipment and technical advice, and facilitating introductions to GE Healthcare clinical ultrasound customers. This agreement does not commit GE Healthcare to a long-term relationship and it may disengage with us at any time. This agreement has a term lasting until December 16, 2024 and is subject to termination by either party upon not less than 60 days' notice. See the section of this Annual Report titled "TAEUS System for Early Assessment and Monitoring of Nonalcoholic Fatty Liver Disease, or NAFLD" under "Item 1. Business" for further description of this agreement.

We intend in the future to form or seek additional strategic alliances, create joint ventures or collaborations or enter into licensing arrangements with third parties that we believe will complement or augment our development and commercialization efforts with respect to our technologies and applications.

Any of these relationships may require us to incur non-recurring and other charges, increase our near- and long-term expenditures, issue securities that dilute our existing stockholders, restrict our ability to collaborate with other third parties or otherwise disrupt our management and business. In addition, we face significant competition in seeking appropriate strategic partners and the negotiation process is time-consuming and complex. Further, strategic alliances and collaborations are subject to numerous risks, which may include the following:

- · collaborators have significant discretion in determining the efforts and resources that they will apply to a collaboration;
- collaborators may not pursue development and commercialization of our technologies and applications or may elect not to continue or renew development or commercialization programs based on clinical trial results, changes in their strategic focus due to the acquisition of

competitive products, availability of funding, or other external factors, such as a business combination that diverts resources or creates competing priorities;

- · collaborators could independently develop, or develop with third parties, products that compete directly or indirectly with our applications and technologies;
- collaborators may not properly maintain or defend our intellectual property rights or may use our intellectual property or proprietary information in a way that gives rise to actual or threatened litigation that could jeopardize or invalidate our intellectual property or proprietary information or expose us to potential liability;
- disputes may arise between us and a collaborator that cause the delay or termination of the research, development or commercialization of our technologies and applications, or that result in costly litigation or arbitration that diverts management attention and resources;
- · collaborations may be terminated and, if terminated, may result in a need for additional capital to pursue further development or commercialization of the applicable applications or technologies; and
- · collaborators may own or co-own intellectual property covering our products that results from our collaborating with them, and in such cases, we would not have the exclusive right to commercialize such intellectual property.

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As a result, if we enter into collaboration agreements and strategic partnerships or license our applications or technologies, we may not be able to realize the benefit of such transactions if we are unable to successfully integrate them with our existing operations and company culture, which could delay our timelines or otherwise adversely affect our business. We also cannot be certain that, following a strategic transaction or license, we will achieve the revenue or specific net income that justifies such transaction. Any delays in entering into new strategic partnership agreements related to our applications could delay the development and commercialization of our technologies and applications in certain geographies or for certain applications, which would harm our business prospects, financial condition and results of operations.

We have limited resources and depend on third parties to design and manufacture, and seek regulatory approval of, our TAEUS applications. If any third party fails to successfully design, manufacture or obtain regulatory approval of TAEUS applications, our business will be materially harmed.

We do not currently have, nor do we plan to acquire, the infrastructure or capability to design or manufacture our TAEUS applications. To support our design and manufacturing efforts, we have contracted StarFish Product Engineering, Inc., a medical device contract manufacturing company, rather than design or manufacture our TAEUS applications ourselves. We have limited control over the efforts and resources that these and any other third-party OEMs will devote to developing and manufacturing our TAEUS applications and their capabilities to serve our needs, including quality control, quality assurance and qualified personnel. In addition, for any future applications of our TAEUS technology we currently expect to depend on OEMs to acquire CE marks for the device or devices that they develop and manufacture which are necessary to permit marketing of those devices in the European Union followed by corresponding FDA approval.

An OEM may not be able to successfully design and manufacture the products it develops based on our TAEUS technology, may not devote sufficient time and resources to support these efforts or may fail in gaining the required regulatory approvals of our TAEUS applications. The failure by an OEM to perform in accordance with our expectations would substantially harm the value of our TAEUS technology, brand and business.

We will need to develop marketing and distribution capabilities both internally and through our relationships with third parties in order to sell any of our TAEUS products receiving regulatory approval. If we experience problems in developing these capabilities, our ability to sell our products could be limited.

We have limited experience selling our products and will need to develop marketing, sales and distribution capabilities in order to sell our TAEUS applications that receive the necessary regulatory approval. We have limited experience managing a sales force and customer support operations and may be unable to attract, retain and manage the collaborative manufacturing and distribution arrangements or the specialized workforce necessary to successfully commercialize our products. In addition, our sales and marketing organization must effectively explain the uses and benefits of our products as compared to alternatives in order to promote market acceptance and demand for our products. Although we have begun to hire a small internal sales and marketing team to engage and support channel partners and clinical customers, further developing these functions will be time-consuming and expensive and our efforts may not be successful.

We intend to partner with others to assist us with some or all of these functions. However, we may be unable to find appropriate third parties with which to enter into these arrangements and any such third parties may not perform as expected.

Furthermore, third-party distributors that are in the business of selling other medical products may not devote a sufficient level of resources and support required to generate awareness of our TAEUS applications and grow or maintain product sales. If these distributors are unwilling or unable to market and sell our products, or if they do not perform to our expectations, we could experience delayed or reduced market acceptance and sales of our products. In addition, disagreements with our distributors or non-performance by these third parties could lead to costly and time-consuming litigation or arbitration and disrupt distribution channels for a period of time and require us to re-establish a distribution channel.

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

Because of our small size, growth in accordance with our business plan, if achieved, will place a significant strain on our financial, technical, operational and management resources. As we expand our activities, there will be additional demands on these resources. The failure to continually upgrade our technical, administrative, operating and financial control systems or the occurrence of unexpected expansion difficulties, including issues relating to our research and development activities and retention of experienced scientists, managers and technicians, could have a material adverse effect on our business, financial condition and results of operations and our ability to timely execute our business plan. If we are unable to implement these actions in a timely manner, our results may be adversely affected.

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#### Competition in the medical imaging market is intense and we may be unable to successfully compete.

In general, competition in the medical imaging market is very significant and characterized by extensive research and development and rapid technological change. Competitors in this market include very large companies with significantly greater resources than we have. To successfully compete in this market we will need to develop TAEUS applications that offer significant advantages over alternative imaging products and procedures for such applications.

While we believe the technology behind our TAEUS platform is unique in the industry, developments by other medical imaging companies of new or improved products, processes or technologies may make our products or proposed products obsolete or less competitive. Alternative medical imaging devices may be more accepted or cost-effective than our products. Competition from these companies for employees with experience in the medical imaging industry could result in higher turnover of our employees. If we are unable to respond to these competitive pressures, we could experience delayed or reduced market acceptance of our products, higher expenses and lower revenue. If we are unable to compete effectively with current or new entrants to these markets, we will be unable to generate sufficient revenue to maintain our business.

Our competitors include producers of CT and MRI systems that include multi-national corporations such as Royal Philips, Siemens AG and Fujifilm Corporation, many of whom also manufacture and sell ultrasound equipment. In the NAFLD diagnosis market we will compete with makers of surgical biopsy tools, such as Cook Medical and Sterylab S.r.l. In the thermal ablation market, we will compete with manufacturers of surgical temperature probes, such as Medtronic plc and St. Jude Medical, Inc. These competitors and other potential competitors have substantially greater financial, technical and other resources, such as larger R&D staff, more robust manufacturing capabilities and more experienced marketing and manufacturing organizations. These competitors may succeed in developing, acquiring or licensing on an exclusive basis, products that are more effective or less costly than TAEUS applications that we may develop, or achieve earlier patent protection, regulatory approval, product commercialization and market penetration than us. Additionally, technologies developed by our competitors may render our potential product candidates uneconomical or obsolete, and we may not be successful in marketing our product candidates against those of our competitors.

Changes in the healthcare industry could result in a reduction in the size of the market for our products or may require us to decrease the selling price for our products, either of which could have a negative impact on our financial performance.

Trends toward managed care, healthcare cost containment, and other changes in government and private sector initiatives in Europe, the United States and China are placing increased emphasis on lowering the cost of medical services, which could adversely affect the demand for or the prices of our products. For example:

- · major third-party payors of hospital and non-hospital based healthcare services could revise their payment methodologies and impose stricter standards for reimbursement of imaging procedures charges and/or a lower or more bundled reimbursement;
- there has been a consolidation among healthcare facilities and purchasers of medical devices who prefer to limit the number of suppliers from whom they purchase medical products, and these entities may decide to stop purchasing our products or demand discounts on our prices; and
- there are proposed and existing laws and regulations in international and domestic markets regulating pricing and profitability of companies in the healthcare industry.

These trends could lead to pressure to reduce prices for our products and could cause a decrease in the demand for our products in any given market that could adversely affect our revenue and profitability, which could harm our business.

We intend to market our approved TAEUS applications globally, and currently market our TAEUS liver probe in the EU, and are therefore subject to the risks of doing business outside of the United States.

Because we intend to market our approved TAEUS applications globally, and currently market our TAEUS liver probe in the EU, our business is subject to risks associated with doing business globally. Accordingly, our business and financial results in the future could be adversely affected due to a variety of factors, including:

- changes in a specific country's or region's political and cultural climate or economic condition;
- · local outbreaks of sickness or disease;
- · war or terrorist attack, including cyberterrorism;
- · unexpected changes in laws and regulatory requirements in local jurisdictions;
- · difficulty of effective enforcement of contractual provisions in local jurisdictions;
- · inadequate intellectual property protection in certain countries;

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- trade-protection measures, import or export licensing requirements such as Export Administration Regulations promulgated by the United States Department of Commerce and fines, penalties or suspension or revocation of export privileges;
- · effects of applicable local tax structures and potentially adverse tax consequences; and

· significant adverse changes in currency exchange rates.

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 largely depends upon the continued services of our executive management team and key employees. The loss of one or more of our executive officers or key employees could harm us and directly impact our financial results. Our employees may terminate their employment with us at any time. Our executive management team has significant experience and knowledge of medical devices and ultrasound systems, and the loss of any team member could impair our ability to design, identify, and develop new intellectual property and new scientific or product ideas. Additionally, if we lose the services of any of these persons, we would likely be forced to expend significant time and money in the pursuit of replacements, which may result in a delay in the implementation of our business plan and plan of operations. We can give no assurance that we could find satisfactory replacements for these individuals on terms that would not be unduly expensive or burdensome to us.

To execute our growth plan, we must attract and retain highly qualified personnel. Competition for skilled personnel is intense, especially for engineers with high levels of experience in designing and developing medical devices. In addition, we will need to identify and hire sales executives and competition for commercial and marketing talent is significant. We may 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 have. In addition, we invest significant time and expense in training our employees, which increases their value to competitors who may seek to recruit them. 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.

Our employees, independent contractors, consultants, commercial partners and vendors may engage in misconduct or other improper activities, including noncompliance with regulatory standards and requirements.

We are exposed to the risk of fraud, misconduct or other illegal activity by our employees, independent contractors, consultants, commercial partners and vendors. Misconduct by these parties could include intentional, reckless and negligent conduct that fails to: comply with the FD&C Act and similar laws of other countries, or the rules and regulations of the FDA and other similar foreign regulatory bodies; comply with manufacturing standards we establish; comply with healthcare fraud and abuse laws in the United States and similar foreign fraudulent misconduct laws; or report financial information or data accurately or to disclose unauthorized activities to us. For any products for which we obtain regulatory approval and begin commercializing in Europe, China or the United States, respectively, our potential exposure under such laws will increase significantly, and our costs associated with compliance with such laws are also likely to increase. In particular, the promotion, sales and marketing of healthcare items and services, as well as certain business arrangements in the healthcare industry, are subject to extensive laws designed to prevent fraud, kickbacks, self-dealing and other abusive practices. Our sales team in the European Union marketing our TAEUS liver probe are subject to these laws, as well as regulations that restrict or prohibit a wide range of pricing, discounting, marketing and promotion, structuring and commissions, certain customer incentive programs and other business arrangements generally. It is not always possible to identify and deter misconduct by employees and other parties, 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 these laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those acti

Misdiagnosis, warranty and other claims, as well as product field actions and regulatory proceedings, initiated against us could increase our costs, delay or reduce our sales and damage our reputation, adversely affecting our financial condition.

Our business exposes us to the risk of malpractice, warranty or product liability claims inherent in the sale and support of medical device products, including those based on claims that the use or failure of one of our products resulted in a misdiagnosis or harm to a patient. Although to date we have not been involved in any medical malpractice or product liability litigation, we may incur significant liability if such litigation were to occur. If we cannot successfully defend ourselves against product liability or related claims, we may incur substantial liabilities or be required to limit the distribution of our products. Even a successful defense would require significant financial and management resources. Regardless of the merits or eventual outcome, liability claims may result in:

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- · decreased demand for our products;
- · injury to our reputation and negative media attention;
- · initiation of investigations by regulators and adverse impacts to our ability to obtain regulatory approvals;
- costs to defend the related litigation;
- · a diversion of management's time and our resources;
- · substantial monetary awards to trial participants or patients;
- · product recalls, withdrawals or labeling, marketing or promotional restrictions;
- · loss of revenue;
- · exhaustion of any available insurance and our capital resources;
- the inability to commercialize a product at all or for particular applications; and
- · a decline in the price of our securities.

Although we currently maintain liability insurance in amounts that we believe are commercially reasonable, any liability we incur may exceed our insurance coverage. Our insurance policies may also have various exclusions, and we may be subject to a claim for which we have no coverage. Liability insurance is expensive and may cease to be available on acceptable terms, if at all. A malpractice, warranty, product liability or other claim or product field action not covered by our insurance or exceeding our coverage could significantly impair our financial condition. In addition, a product field action or a liability claim against us could significantly harm our reputation and make it more difficult to obtain the funding and commercial relationships necessary to maintain our business.

# Our internal computer systems, or those used by third-party manufacturers or other contractors or consultants, may fail or suffer security breaches.

Despite the implementation of security measures, our internal computer systems and those of our future manufacturers and other contractors and consultants are vulnerable to damage from computer viruses and unauthorized access. Although to our knowledge we have not experienced any such material system failure or security breach to date, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our research and development programs and our business operations. To the extent that any disruption or security breach were to result in a loss of, or damage to, our data or applications, or inappropriate disclosure of confidential or proprietary information, we could incur liability and the further development and commercialization of our products could be delayed.

#### Risks Related to Intellectual Property and Other Legal Matters

If we are unable to protect our intellectual property, which entails significant expense and resources, then our financial condition, results of operations and the value of our technology and products could be adversely affected.

Much of our value arises from our proprietary technology and intellectual property for the design, manufacture and use of medical imaging systems, including development of our TAEUS applications. We rely on patent, copyright, trade secret and trademark laws to protect our proprietary technology and limit the ability of others to compete with us using the same or similar technology. Third parties may infringe or misappropriate our intellectual property, which could harm our business. Additionally, any patents issued to us may be challenged by third parties as being invalid, or third parties may independently develop similar or competing technology that avoids our patents. Should such challenges be successful, competitors might be able to market products and use manufacturing processes that are substantially similar to ours. Consequently, we may be unable to prevent our proprietary technology from being exploited abroad, which could affect our ability to expand to international markets or require costly efforts to protect our technology. Our failure to secure, protect and enforce our intellectual property rights could substantially harm the value of our TAEUS platform, brand and business. See the section of this Annual Report titled "Intellectual Property" under "Item 1. Business" for further information on our Intellectual Property portfolio.

Expenses related to a patent portfolio include periodic maintenance fees, renewal fees, annuity fees, various other governmental fees on patents and/or applications due in several stages over the lifetime of patents and/or applications, as well as the cost associated with complying with numerous procedural provisions during the patent application process. We may or may not choose to pursue or maintain protection for particular inventions. In addition, there are situations in which a failure to make certain payments or noncompliance with certain requirements in the patent process can result in abandonment or lapse of a patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction.

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Policing unauthorized use of our proprietary rights can be difficult, expensive and time-consuming, and we might be unable to determine the extent of this unauthorized use.

Policing unauthorized use of our intellectual property is difficult, costly and time-intensive. We may fail to stop or prevent misappropriation of our technology, particularly in countries where the laws may not protect our proprietary rights to the same extent as do the laws of the United States. Proceedings to enforce our patent and other intellectual property rights in non-U.S. jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business. If we cannot prevent other companies from using our proprietary technology or if our patents are found invalid or otherwise unenforceable, we may be unable to compete effectively against other manufacturers of ultrasound systems, which could decrease our market share. In addition, the breach of a patent licensing agreement by us may result in termination of a patent license.

We may not be able to prevent the unauthorized disclosure or use of our technical knowledge or other trade secrets by consultants, vendors or former or current employees, despite the existence generally of confidentiality agreements and other contractual restrictions. 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 will be adequate.

If we are unable to protect the confidentiality of our proprietary information and know-how, the value of our technology and products could be adversely affected.

In addition to our patent activities, we rely upon, among other things, unpatented proprietary technology, processes, trade secrets and know-how. Any involuntary disclosure to or misappropriation by third parties of our confidential or proprietary information could enable competitors to duplicate or surpass our technological achievements, potentially eroding our competitive position in our market. We seek to protect confidential or proprietary information in part by confidentiality agreements with our employees, consultants and third parties. While we require all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how, information and technology to enter into confidentiality agreements, we cannot be certain that this know-how, information and technology will not be disclosed or that competitors will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. These agreements may be terminated or breached, and we may not have adequate remedies for any such termination or breach. Furthermore, these agreements may not provide meaningful protection for our trade secrets and know-how in the event of unauthorized use or disclosure. To the extent that any of our staff was previously employed by other pharmaceutical, medical technology or biotechnology companies, those employers may allege violations of trade secrets and other similar claims in relation to their former employee's therapeutic development activities for us.

We may in the future be a party to intellectual property litigation or administrative proceedings that could be costly and could interfere with our ability to sell our TAEUS applications.

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. Other medical imaging market participants, 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. We may become a party to patent or trademark infringement or trade secret claims and litigation as a result of these and other third-party intellectual property rights being asserted against us. The defense and prosecution of these matters are both costly and time consuming. 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.

Further, if such 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 TAEUS applications to avoid infringement.

Similarly, interference or derivation proceedings provoked by third parties or brought by the U.S. Patent and Trademark Office ("USPTO") may be necessary to determine the priority of inventions or other matters of inventorship with respect to our patents or patent applications. We may also become involved in other proceedings, such as re-examination, inter partes review, 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 and selling our TAEUS applications or using product names, which would have a significant adverse impact on our business.

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Additionally, we may need to commence proceedings against others to enforce our patents or trademarks, to protect our trade secrets or know-how, or to determine the enforceability, scope and validity of the proprietary rights of others. These proceedings would result in substantial expense to us and significant diversion of effort by our technical and management personnel. We may not prevail in any lawsuits that we initiate and the damages or other remedies awarded, if any, may not be commercially meaningful. We may not be able to stop a competitor from marketing and selling products that are the same or similar to our products or from using product names that are the same or similar to our product names, and our business may be harmed as a result.

#### **Risks Related to Government Regulation**

#### Failure to comply with laws and regulations could harm our business.

Our business is or in the future may be subject to regulation by various federal, state, local and foreign governmental agencies, including agencies responsible for monitoring and enforcing employment and labor laws, workplace safety, environmental laws, consumer protection laws, anti-bribery laws, import/export controls, securities laws and tax laws and regulations. In certain jurisdictions, these regulatory requirements may be more stringent than those in the United States. Noncompliance with applicable regulations or requirements could subject us to investigations, sanctions, mandatory recalls, enforcement actions, adverse publicity, disgorgement of profits, fines, damages, civil and criminal penalties or injunctions and administrative actions. If any governmental sanctions, fines or penalties are imposed, or if we do not prevail in any possible civil or criminal litigation, our business, operating results and financial condition could be harmed. In addition, responding to any action will likely result in a significant diversion of management's attention and our resources and substantial costs. Enforcement actions and sanctions could further harm our business, operating results and financial condition.

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

The medical devices that we manufacture and market will be subject to regulation by numerous worldwide regulatory bodies, including the EMA, FDA and other comparable regulatory agencies. Additionally, third parties designing, manufacturing or conducting human studies of our devices will be subject to local regulations, such as those of Health Canada. These agencies and regulations require manufacturers of medical devices to comply with applicable laws and regulations governing development, testing, manufacturing, labeling, marketing and distribution of medical devices. Devices are generally subject to varying levels of regulatory control, based on the risk level of the device. Governmental regulations specific to medical devices are wide-ranging and govern, among other things:

- · product design, development and manufacture;
- · laboratory, pre-clinical 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.

The European Union has revised its regulatory system for medical devices by implementing regulation (EU) 2017/745 on medical devices ("Medical Device Regulation" or "MDR") and regulation (EU) 2017/746 on in vitro diagnostic medical devices. The MDR became effective on May 26, 2021 (the "Date of Application" or "DoA"). The changes to the regulatory system implemented by the MDR include stricter requirements for clinical evidence and pre-market assessment of safety and performance, refined classifications to indicate risk levels, requirements for third party testing by Notified Bodies, tightened and streamlined quality management system assessment procedures and additional requirements for the quality management system, additional requirements for traceability of products and transparency as well a refined responsibility of economic operators.

We are currently in a transitional period, where our existing certified products will be required to continue to comply with applicable medical device directives (including the Medical Devices Directive and the Active Implantable Medical Devices Directive) and with the Medical Device Regulation to obtain CE mark certification in order to continue or commence marketing medical devices. The CE mark is applied following approval from a Notified Body or declaration of conformity. It is an international symbol of adherence to quality assurance standards and compliance with applicable European Medical Devices Directives or the MDR, as the case may be. CE mark approvals issued prior to May 26, 2021 will, subject to certain conditions (including, among others, continued compliance with the MDR, no significant changes to design or intended purpose, a quality management system, and engagement with a notified body to obtain conformity assessment), remain valid until December 31, 2028. In March 2020, we received CE mark approval for our TAEUS FLIP (Fatty Liver Imaging Probe) System. The CE marking indicates that TAEUS complies with all applicable regulations in the EU, and other CE mark geographies, including the 27 EU member states. We believe that future TAEUS applications will qualify for sale in the European Union as Class IIa medical devices. The MDR requires a clinical evaluation for all medical devices and clinical trials for selected medical devices to be (re-)certified under the rules of the MDR. Depending on the classification of our applications, future CE mark certifications or recertification of our applications may require additional clinical evaluations or trials, as the case may be.

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We are also required to comply with the regulations of each other country where we commercialize products, such as the requirement that we obtain approval from the FDA and the China Food and Drug Administration before we can launch new products in the United States and China, respectively.

Our NAFLD TAEUS device is being reviewed under a "de novo" process for a risk-based classification determination whether the device is of low to moderate risk and that it can be appropriately regulated as a Class II device and thereby eligible for 510(k) clearance. While the 510(k) pathway for product marketing typically requires only non-clinical testing proof of substantial equivalence to a lawfully marketed predicate device for a given indication, the FDA has requested clinical studies to support a reclassification to a lower risk class via the de novo process. Even with the clinical data we expect to provide with the de novo submission for our NAFLD TAEUS device, the FDA may decide to reject the request to classify the device into Class II. If that happens, the device will be regulated as a Class III device and we will be required to fulfill more rigorous PMA requirements. Thus, although at this time we do not anticipate that we will be required to do so, it is possible that our NAFLD TAEUS device may require approval by means of a PMA.

We may not be able to obtain the necessary clearances or approvals or may be unduly delayed in doing so, which could harm our business.

### Even if we obtain regulatory approval for our TAEUS device, our product will remain subject to regulatory oversight.

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. Therefore, even if we believe we have successfully developed our TAEUS technology, we may not be permitted to market TAEUS applications in the United States if we do not obtain FDA regulatory clearance to market such applications. Delays in obtaining clearance or approval could increase our costs and harm our revenues and growth.

In addition, we are required to timely file various reports with the FDA, including reports required by the medical device reporting regulations that require us to report to certain regulatory authorities if our devices 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 filed timely, regulators may impose sanctions and sales of our products may suffer, and we may be subject to product liability or regulatory enforcement actions, all of which could harm our business.

If we initiate a correction or removal for one of our devices to reduce a risk to health posed by the device, 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 increased scrutiny by the FDA, other international regulatory agencies and our customers regarding the quality and safety of our devices. Furthermore, the submission of these reports has been and could be used by competitors against us in competitive situations and cause customers to delay purchase decisions or cancel orders and would harm our reputation.

The FDA and the Federal Trade Commission (the "FTC") also regulate the advertising and promotion of our planned products to ensure that the claims we make are consistent with our regulatory clearances, that there are adequate and reasonable 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 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 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, recall or seizure of our products;
- · operating restrictions, partial suspension or total shutdown of production;
- refusing our requests for 510(k) clearance or premarket approval of new products, new intended uses or modifications to existing products;
- withdrawing 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 would be harmed.

We have experienced and may in the future experience delays and other difficulties in enrolling a sufficient number of patients in our clinical trials which could delay or prevent the receipt of necessary regulatory approvals.

We may not be able to initiate or complete as planned any clinical trials if we are unable to identify and enroll a sufficient number of eligible patients to participate in the clinical trials required by the FDA or other regulatory authorities. We also may be unable to engage a sufficient number of clinical trial sites to conduct our trials.

We may face challenges in enrolling patients to participate in our clinical trials. Patients suffering from diseases within target indications may enroll in competing clinical trials, which could negatively affect our ability to complete enrollment of our trials. Additionally, enrollment may be delayed by unforeseen circumstances, as occurred with the COVID-19 pandemic. Enrollment challenges in clinical trials often result in increased development costs for a product candidate, significant delays and potentially the abandonment of the clinical trial.

#### We may have other delays in completing our clinical trials and we may not complete them at all.

Since we lack significant experience in completing clinical trials and bringing a medical device through commercialization, we have hired outside consultants with such experience. Clinical trials for our TAEUS device may be delayed or terminated as a result of many factors, including the following:

- patients failing to complete clinical trials due to dissatisfaction with the procedure, side effects, or other reasons;
- failure by regulators to authorize us to commence a clinical trial;
- suspension or termination by regulators of clinical research for many reasons, including concerns about patient safety, the failure of study sites and/or investigators in our clinical research program to comply with GCP requirements, or our failure, or the failure of our contract manufacturers, to comply with current cGMP requirements;
- · delays or failure to obtain clinical supply for our products necessary to conduct clinical trials from contract manufacturers;
- · treatment candidates demonstrating a lack of efficacy during clinical trials;
- · inability to continue to fund clinical trials or to find a partner to fund the clinical trials.

Any delay or failure to complete clinical trials could have a material adverse effect on our cost to develop and commercialize, and our ability to generate revenue from, our TAEUS device.

Our TAEUS applications may require recertification or new regulatory clearances or premarket approvals and we may be required to recall or cease marketing our TAEUS applications until such recertification or clearances are obtained.

Most countries outside of the United States require that product approvals be recertified on a regular basis, generally every five years. The recertification process requires that we evaluate any device changes and any new regulations or standards relevant to the device and, where needed, conduct appropriate testing to document continued compliance. Where recertification applications are required, they must be approved in order to continue selling our products in those countries.

In the United States, material modifications to the intended use or technological characteristics of our TAEUS applications will require new 510(k) clearances or premarket approvals or require us to recall or cease marketing the modified devices until these clearances or approvals are obtained. Based on FDA published guidelines, 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 efficacy or that would constitute a major change in its intended use would require a new 510(k) clearance or possibly a premarket approval.

We may not be able to obtain recertification or additional 510(k) clearances or premarket approvals for our applications or for modifications to, or additional indications for, our TAEUS technology in a timely fashion, or at all. Delays in obtaining required future governmental approvals would harm our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth. If foreign regulatory authorities or the FDA require additional approvals, we may be required to recall and to stop selling or marketing our TAEUS applications, which could harm our operating results and require us to redesign our applications. In these circumstances, we may be subject to significant enforcement actions.

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If any OEMs fail to comply with the FDA's Quality System Regulations or other regulatory bodies' equivalent regulations, manufacturing operations could be delayed or shut down and the development of our TAEUS platform could suffer.

The manufacturing processes of OEMs are required to comply with the FDA's Quality System Regulations and other regulatory bodies' equivalent regulations, which cover the procedures and documentation of the design, testing, production, control, quality assurance, labeling, packaging, storage and shipping of our TAEUS applications. They may also be subject to similar state requirements and licenses and engage in extensive recordkeeping and reporting and make available their manufacturing facilities and records for periodic unannounced inspections by governmental agencies, including the FDA, state authorities and comparable agencies in other countries. If any OEM fails such an inspection, our operations could be disrupted and our manufacturing interrupted. Failure to take adequate corrective action in response to an adverse inspection could result in, among other things, a shut-down of our manufacturing operations, significant fines, suspension of marketing clearances and approvals, seizures or recalls of our products, operating restrictions and criminal prosecutions, any of which would cause our business to suffer. Furthermore, these OEMs may be engaged with other companies to supply and/or manufacture materials or products for such companies, which would expose our OEMs to regulatory risks for the production of such materials and products. As a result, failure to meet the regulatory requirements for the production of those materials and products may also affect the regulatory clearance of a third-party manufacturers' facility. If the FDA or a foreign regulatory agency does not approve these facilities for the manufacture of our products, or if it withdraws its approval in the future, we may need to find alternative manufacturing facilities, which would impede or delay our ability to develop, obtain regulatory approval for or market our products, if approved. Additionally, our key component suppliers may not currently be or may not continue to be in compliance with applicable regulatory requirements, which may re

## Our TAEUS applications may in the future be subject to product recalls that could harm our reputation.

Governmental authorities in Europe, the United States and China 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 could occur as a result of component failures, manufacturing errors or design or labeling defects. Recalls of our TAEUS applications would divert managerial attention, be expensive, harm our reputation with customers and harm our financial condition and results of operations. A recall announcement would negatively affect the price of our securities.

## Healthcare reform measures could hinder or prevent our planned products' commercial success.

There have been, and we expect there will continue to be, a number of legislative and regulatory changes to the healthcare system in ways that could harm our future revenues and profitability and the future revenues and profitability of our potential customers. In the EU, the Medical Devices Directive is being replaced with the more expansive Medical Devices Regulation, which may increase the costs of obtaining and maintaining required regulatory approvals for our products. We cannot predict what other healthcare initiatives, if any, will be implemented by EU member countries, or the effect any future legislation or regulation will have on us.

In the United States, federal and state lawmakers regularly propose and, at times, enact legislation that would result in significant changes to the healthcare system, some of which are intended to contain or reduce the costs of medical products and services. For example, one of the most significant healthcare reform measures in decades, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act (the "Affordable Care Act"), was enacted in 2010. The Affordable Care Act contains a number of provisions, including those governing enrollment in federal healthcare programs, reimbursement changes and fraud and abuse measures, all of which will impact existing government healthcare programs and will result in the development of new programs.

It remains unclear whether changes will be made to the Affordable Care Act, or whether it will be repealed or materially modified. For example, the Tax Cuts and Jobs Act of 2017 modified certain aspects of the Affordable Care Act and the Biden Administration and U.S. Congress may take further action regarding the Affordable Care Act. Therefore, we cannot assure you that the Affordable Care Act, as currently enacted or as may be further amended or discontinued in the future, will not harm our business and financial results and we cannot predict how future federal or state legislative or administrative changes relating to healthcare reform will affect our business.

There likely will continue to be legislative and regulatory proposals at the federal and state levels directed at containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future or their full impact. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare may harm:

- our ability to set a price that we believe is fair for our products;
- out ability to generate revenues and achieve or maintain profitability; and
- the availability of capital.

If we fail to comply with healthcare regulations, we could face substantial penalties and our business, operations and financial condition could be adversely affected.

Even though we do not and will not control referrals of healthcare services or bill directly to Medicare, Medicaid or other third party payors, certain federal and state healthcare laws and regulations pertaining to fraud and abuse and patients' rights are and will be applicable to our business. We could be subject to healthcare fraud and abuse and patient privacy regulation by both the federal government and the states in which we conduct our business. Other jurisdictions such as the European Union have similar laws. The regulations that will affect how we operate include:

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- the federal healthcare program Anti-Kickback Statute, which 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 Medicare and Medicaid programs;
- 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;
- · federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters;
- the federal Physician Payment Sunshine Act, created under the Affordable Care Act, and its implementing regulations, which require 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 or other transfers of value made to physicians and teaching hospitals, as well as ownership and investment interests held by physicians and their immediate family members;
- the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as amended by the Health Information Technology for Economic and Clinical Health Act, which governs the conduct of certain electronic healthcare transactions and protects the security and privacy of protected health information; and
- state 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 payor, including commercial insurers.

The Affordable Care Act, among other things, amends the intent requirement of the Federal Anti-Kickback Statute and criminal healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. In addition, the Affordable Care Act provides that 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 False Claims Act.

Efforts to ensure that our business arrangements will comply with applicable healthcare laws may involve substantial costs. It is possible that governmental and enforcement authorities will conclude that our business practices do not comply with current or future statutes, regulations or case law interpreting applicable fraud and abuse or other healthcare laws and 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 impact on our business, including the imposition of civil, criminal and administrative penalties, damages, disgorgement, monetary fines, possible exclusion from participation in Medicare, Medicaid and other federal and similar foreign healthcare programs, contractual damages, reputational harm, diminished profits and future earnings, and curtailment of our operations, any of which could harm our ability to operate our business and our results of operations.

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

Our research and development and manufacturing operations may 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. In addition, our research and development and manufacturing operations produce biological waste materials, such as human and animal tissue, and waste solvents, such as isopropyl alcohol. These operations are permitted by regulatory authorities, and the resultant waste materials are disposed of in material compliance with environmental laws and regulations. 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 non-compliance could result in substantial liabilities, fines and penalties, personal injury and third part 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 Owning Our Securities, Our Financial Results and Our Need for Financing

Our quarterly and annual results may fluctuate significantly, may not fully reflect the underlying performance of our business and may result in volatility in the price of our securities.

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Our operating results will be affected by numerous factors such as:

- · variations in the level of expenses related to our proposed products;
- · status of our product development efforts;
- · execution of collaborative, licensing or other arrangements, and the timing of payments received or made under those arrangements;
- intellectual property prosecution and any infringement lawsuits to which we may become a party;
- · regulatory developments affecting our products or those of our competitors, including the timing and success of obtaining various regulatory approvals for our products' testing, production and marketing;
- · our ability to obtain and maintain FDA clearance and approval from foreign regulatory authorities for our products, which have not yet been approved for marketing;
- · market acceptance of our TAEUS applications;
- the availability of reimbursement for our TAEUS applications;
- our ability to attract new customers and grow our business with existing customers;
- the timing and success of new product and feature introductions by us or our competitors or any other change in the competitive dynamics of our industry, including consolidation among competitors, customers or strategic partners;
- the amount and timing of costs and expenses related to the maintenance and expansion of our business and operations;
- · changes in our pricing policies or those of our competitors;
- · general economic, industry and market conditions;
- the hiring, training and retention of key employees, including our ability to expand our sales team;
- litigation or other claims against us;
- · our ability to obtain additional financing; and
- · advances and trends in new technologies and industry standards.

Any or all of these factors could adversely affect our cash position requiring us to raise additional capital which may be on unfavorable terms and result in substantial dilution. Additionally, the risks surrounding our business, as well as the limited market for our common stock, have resulted, and will likely continue to result, in volatility in the price of our common stock.

Our stock price has fluctuated in the past, has recently been volatile and may be volatile in the future for reasons unrelated to our operating performance or prospects, and as a result, investors in our common stock could incur substantial losses.

Our stock price has fluctuated in the past, has recently been volatile and may be volatile in the future. From January 1, 2023 through December 31, 2023, intra-day trading prices of shares of our common stock on the Nasdaq Capital Market fluctuated from a low of \$0.87 to a high of \$5.39, and may continue to fluctuate significantly in the future. The stock market in general and the market for healthcare companies in particular have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. As a result of this volatility, investors may experience losses on their investment in our common stock.

Additionally, securities of certain companies have experienced significant and extreme volatility in stock price due to a sudden increase in demand for stock resulting in aggregate short positions in the stock exceeding the number of shares available for purchase, forcing investors with short exposure to pay a premium to repurchase shares for delivery to share lenders. This is known as a "short squeeze." These short squeezes have led to the price per share of those companies to trade at a significantly inflated rate that is disconnected from the underlying value of the company. Many investors who have purchased shares in those companies at an inflated rate face the risk of losing a significant portion of their original investment as the price per share declines steadily as interest in those stocks abates. While we have no reason to believe our shares would be the target of a short squeeze, there can be no assurance that they will not be in the future, and you may lose a significant portion or all of your investment if you purchase our shares at a rate that is significantly disconnected from our underlying value.

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Our stock is subject to minimum requirements to remain listed on the Nasdaq Capital Market, including a minimum bid price requirement, and may be delisted if it does not maintain compliance with those requirements.

On January 5, 2022, the Company received a notification letter from the Listing Qualifications Department of Nasdaq notifying the Company that, because the closing bid price for the Company's common stock listed on Nasdaq was below \$1.00 for 30 consecutive trading days, the Company no longer met the minimum bid price requirement for continued listing on The Nasdaq Capital Market under Nasdaq Marketplace Rule 5550(a)(2), requiring a minimum bid price of \$1.00 per share (the "Minimum Bid Price Requirement").

The Company held a special meeting of the stockholders in November 2022 for the purpose of approving a reverse stock split. Following stockholder approval, the Company filed a Certificate of Amendment to the Company's Fourth Amended and Restated Certificate of Incorporation with the Secretary of State of Delaware to effect a 1-for-20 reverse stock split of the shares of the Company's Common Stock, effective as of December 9, 2022 (the "Reverse Stock Split"). As a result of the Reverse Stock Split, the Company regained compliance with the Nasdaq Minimum Bid Price Requirement. If we fall below the Minimum Bid Price Requirement again, we cannot be certain that our stockholders will approve a reverse stock split or, if approved, how the market would respond to such a reverse stock split.

We may be subject to securities litigation, which is expensive and could divert management attention.

In the past, companies that have experienced volatility in the market price of their securities have been subject to an increased incidence of securities class action litigation. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management's attention from other business concerns, which could seriously harm our business.

## There is a limited market for our common stock.

Although our common stock is traded on the Nasdaq Capital Market, the volume of trading has historically been limited. Our average daily trading volume of our shares from January 1, 2023 to December 31, 2023 was approximately 66,369 shares. Thinly traded stock can be more volatile than stock trading in a more active public market. While we have made efforts to increase trading in our stock, we cannot predict the extent to which an active public market for our common stock will develop or be sustained. Therefore, a holder of our common stock who wishes to sell his or her shares may not be able to do so immediately or at an acceptable price.

If securities or industry analysts do not publish research reports about our business, or if they issue an adverse opinion about our business, the price of our securities and trading volume could decline.

The trading market for our securities is influenced by the research and reports that industry or securities analysts publish about us or our business. If any of the securities or industry analysts who cover us or may cover us in the future change their recommendation regarding our common stock adversely, or provide more favorable relative recommendations about our competitors, the price of our common stock would likely decline. If any securities or industry analyst who covers us or may cover us in the future were to cease coverage of us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause the price or trading volume of our common stock to decline.

If we are unable to implement and maintain effective internal control over financial reporting, including by remediating current material weaknesses in our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports, and the market price of our securities may decrease and we may become subject to litigation or enforcement actions.

As a public company, we are required to maintain internal control over financial reporting and to report any material weaknesses in such internal controls. Section 404 of the Sarbanes-Oxley Act of 2002 (the "Sarbanes-Oxley Act") requires that we evaluate and determine the effectiveness of our internal control over financial reporting and provide a management report on our internal control over financial reporting.

Currently, we have material weaknesses in our internal control over financial reporting and, as a result, we may not detect errors on a timely basis and our financial statements may be materially misstated. Specifically, we have insufficient personnel resources within the accounting function to segregate the

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Until such time as we are no longer a smaller reporting company, our auditors will not be required to attest as to our internal control over financial reporting. If we continue to identify material weaknesses in our internal control over financial reporting, if we are unable to comply with the requirements of Section 404 in a timely manner, if we are unable to assert that our internal control over financial reporting is effective or, if required, if our independent registered public accounting firm is unable to attest that our internal control over financial reporting is effective, investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our common stock could decrease. We could also become subject to stockholder or other third-party litigation as well as investigations by the stock exchange on which our securities are listed, the Securities and Exchange Commission (the "SEC") or other regulatory authorities, which could require additional financial and management resources and could result in fines, trading suspensions or other remedies.

We are subject to the periodic reporting requirements of the Exchange Act. Our disclosure controls and procedures are designed to reasonably assure that information required to be disclosed by us in reports we file or submit under the Exchange Act is accumulated and communicated to management, and recorded, processed, summarized and reported within the time periods specified by the rules and forms of the SEC. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements due to error or fraud may occur and not be detected.

## We have not paid dividends in the past and have no plans to pay dividends.

We plan to reinvest all of our earnings, to the extent we have earnings, in order to further develop our technology and potential products and to cover operating costs. We do not plan to pay any cash dividends with respect to our securities in the foreseeable future. We cannot assure you that we will, at any time, generate sufficient surplus cash that would be available for distribution to the holders of our common stock as a dividend.

We incur significant costs as a result of being a public company that reports to the SEC and our management is required to devote substantial time to meet compliance obligations.

As a public company listed in the United States, we incur significant legal, accounting and other expenses relating to our compliance obligations. We are subject to reporting requirements of the Exchange Act and the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and Nasdaq that impose significant requirements on public companies, including requiring the establishment and maintenance of effective disclosure and financial controls and corporate governance practices. In addition, there are significant corporate governance and executive compensation-related provisions in the Dodd-Frank Act Wall Street Reform and Protection Act that contribute to our legal and financial compliance costs, make some activities more difficult, time-consuming or costly and also place undue strain on our personnel, systems and resources. Our management and other personnel need to devote a substantial amount of time to these compliance initiatives. Furthermore, these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. As a result, it may be more difficult for us to attract and retain qualified people to serve on our board of directors, our board committees or as executive officers.

Future sales and issuances of our common stock or rights to purchase common stock, including pursuant to our equity incentive plan and our at-the-market equity offering program, could result in dilution of the percentage ownership of our stockholders and could cause the price of our securities to fall.

We expect that significant capital will be needed in the future to continue our planned operations. To the extent we raise capital by issuing common stock, convertible securities or other equity securities, our stockholders may experience substantial dilution, and new investors could gain rights superior to our existing stockholders.

## Our charter documents and Delaware law may inhibit a takeover that stockholders consider favorable.

Certain provisions of our Fourth Amended and Restated Certificate of Incorporation, as amended (our "Certificate of Incorporation") and Amended and Restated Bylaws (our "Bylaws") and applicable provisions of Delaware law may delay or discourage transactions involving an actual or potential change in control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. The provisions in our Certificate of Incorporation and Bylaws:

- authorize our board of directors to issue preferred stock without stockholder approval and to designate the rights, preferences and privileges of each class; if issued, such preferred stock would increase the number of outstanding shares of our capital stock and could include terms that may deter an acquisition of us;
- · limit who may call stockholder meetings;

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do not provide for cumulative voting rights;

- · provide that all vacancies in our board of directors may be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- · provide that stockholders must comply with advance notice procedures with respect to stockholder proposals and the nomination of candidates for director;
- · provide that stockholders may only amend our Certificate of Incorporation upon a supermajority vote of stockholders; and
- · provide that the Court of Chancery of the State of Delaware will be the exclusive forum for certain legal claims.

In addition, section 203 of the Delaware General Corporation Law limits our ability to engage in any business combination with a person who beneficially owns 15% or more of our outstanding voting stock unless certain conditions are satisfied. This restriction lasts for a period of three years following any such person's share acquisition. These provisions may have the effect of entrenching our management team and may deprive stockholders of the opportunity to sell their shares to potential acquirers at a premium over prevailing prices. This potential inability to obtain a control premium could reduce the price of our common stock.

#### **General Risk Factors**

# Unfavorable national or global economic conditions or political developments could adversely affect our business, financial condition or results of operations.

Our results of operations could be adversely affected by general conditions in the national or global economy and financial markets. For example, governmental statements, actions or policies, political unrest and global financial crises can cause extreme volatility and disruptions in the capital and credit markets. A severe or prolonged economic downturn, political unrest or additional global financial crises, including those resulting from the COVID-19 pandemic and the ongoing Russia-Ukraine war, Israel-Hamas war and the conflict between China and Taiwan, could result in a variety of risks to our business, including weakened demand for our products, if approved, or our ability to raise additional capital when needed on acceptable terms, if at all. A weak or declining economy could also strain our suppliers, possibly resulting in supply disruption. Any of the foregoing could harm our business and we cannot anticipate all of the ways in which the current economic climate, further political developments and financial market conditions could adversely impact our business.

## Our cash and cash equivalents could be adversely affected if the financial institutions in which we hold our cash and cash equivalents fail.

We regularly maintain cash balances at third-party financial institutions in excess of the Federal Deposit Insurance Corporation insurance limit. Any failure of a depository institution to return these deposits on demand, or if a depository institution is subject to other adverse conditions in the financial or credit markets, could impact access to our invested cash or cash equivalents and could adversely impact our operating liquidity and financial performance.

#### Our business and operations are subject to risks related to climate change.

The effects of global climate change present risks to our business. Natural disasters, extreme weather and other conditions caused by or related to climate change could adversely impact our supply chain, the courier delivery services we use, the availability and cost of raw materials and components, energy supply, transportation, or other inputs necessary for the operation of our business. Climate change and natural disasters could also result in physical damage to our facilities as well as those of our suppliers, health care providers and other business partners, which could cause disruption in our business and operations. Our facilities and our laboratory equipment would be costly to replace and could require substantial lead time to repair or replace. Although we believe we possess adequate insurance for the disruption of our business from causalities, such insurance may not be sufficient to cover all of our potential losses and may not continue to be available to us on acceptable terms, or at all.

## Our business could be negatively impacted by corporate social responsibility and sustainability matters.

There has been an increased focus from investors, customers, employees and other stakeholders concerning corporate social responsibility and sustainability matters, including addressing climate change and diversity in company management, which may result in increases in our costs to operate our business or restrict certain aspects of our activities. The standards by which corporate social responsibility and sustainability efforts and related matters are measured are developing and evolving, and certain areas are subject to assumptions that could change over time and the extent and severity of climate change impacts are unknown. In addition, we could be criticized for the scope of such initiatives or goals or a lack of diversity on our board of directors or among our executive officers, or perceived as not acting responsibly in connection with these matters. Any such matters could have a material adverse impact on our future results of operations, financial position and cash flows.

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## **Item 1B. Unresolved Staff Comments**

Not applicable.

## Item 1C. Cybersecurity

We have established procedures for evaluating, recognizing, and managing significant risks stemming from potential unauthorized events occurring on or through our electronic information systems. These procedures comprise an important part of our overall enterprise risk management systemand are aimed at preventing, detecting, or mitigating data breaches, theft, misuse, unauthorized access, or any other security incidents or vulnerabilities affecting digitally stored data. Internally we have an Internet, Email and Computer Use Policy and all of our employees have been trained on the policy and related tools. Additionally, we employ processes to manage and identify risks arising from cybersecurity threats linked to supplier and customer relationships and our utilization of third-party technology and systems.

We adhere to a risk management framework based on applicable laws and regulations to handle cybersecurity risks across our products, services, infrastructure and corporate assets. We regularly conduct risk assessments to gauge the effectiveness of our systems, identifying areas for improvement. These processes enable us to make informed, risk-based decisions and prioritize cybersecurity measures and risk mitigation strategies. Our risk mitigation efforts encompass a range of technical and operational actions.

Our cybersecurity risks and related responses are evaluated by senior leadership, including as part of our enterprise risk assessments that are reviewed by our Board of Directors. Our management team supervises efforts to prevent, detect, mitigate and remediate cybersecurity risks and incidents. However, we cannot guarantee that our efforts will prevent any cybersecurity incident from occurring.

As of the date of this report, we have not identified any risks from cybersecurity threats, including as a result of any previous cybersecurity incidents, that we believe have, or are likely to, materially affect us, our business strategy, results of operations, or financial condition.

#### **Item 2. Properties**

Our principal office is located at 3600 Green Court, Suite 350, Ann Arbor, Michigan 48105-1570. We lease approximately 7,200 square feet of office and light industrial/research space under a lease that is due to expire in December 2025. The rent is \$16,393 per month effective January 1, 2023, subject to moderate annual increases.

We also maintain an office in London, Ontario, Canada under a lease that is terminable by either party with 60 days' written notice. The rent is approximately \$900 per month per the agreement with the landlord, subject to moderate annual increases at the discretion of the landlord.

We believe that, with respect to both of our facilities, equivalent suitable space is available at similar rents.

#### Item 3. Legal Proceedings

We are not currently a party to any pending legal proceedings that we believe will have a material adverse effect on our business or financial conditions. We may, however, be subject to various claims and legal actions arising in the ordinary course of business from time to time.

#### **Item 4. Mine Safety Disclosures**

Not applicable.

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## PART II

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

## Market Information

Our common stock has been listed on the Nasdaq Capital Market under the symbol "NDRA" since June 28, 2017 upon the separation of units sold in our initial public offering. Prior to that date, our common stock traded together with warrants issued in our initial public offering as units beginning on May 9, 2017. Our publicly traded warrants expired on May 12, 2022.

As of March 24, 2024, there were 23 holders of record of our common stock.

## **Dividend Policy**

We have never paid cash dividends on our securities and we do not anticipate paying any cash dividends on our shares of common stock in the foreseeable future. We intend to retain any future earnings for reinvestment in our business. Any future determination to pay cash dividends will be at the discretion of our board of directors, and will be dependent upon our financial condition, results of operations, capital requirements and such other factors as our board of directors deems relevant.

# Securities Authorized for Issuance Under Equity Compensation Plans

The information required by Item 5 of Form 10-K regarding equity compensation plans is incorporated herein by reference to Item 12 of Part III of this Annual Report on Form 10-K.

## Recent Sales of Unregistered Securities

On November 30, 2023, the Company issued 202,020 shares of restricted common stock (the "Restricted Stock") of the Company to PatentVest, Inc. ("PatentVest") pursuant to a Restricted Stock Agreement and Consulting Services Agreement, each with PatentVest, in exchange for certain services related to the Company's patent portfolio. The Restricted Stock is subject to a vesting schedule pursuant to the Restricted Stock Agreement and the shares may not be sold, assigned, transferred, pledged, hypothecated, disposed of or otherwise encumbered prior to becoming vested. The Restricted Stock was offered and sold in reliance upon the exemption from the registration set forth under Section 4(a)(2) of the Securities Act, and the regulations promulgated thereunder relating to sales by an issuer not involving any public offering, and in reliance on similar exemptions under applicable state laws.

## Issuer Purchases of Equity Securities

There were no repurchases of our common stock during the year ended December 31, 2023.

## Item 6. [Reserved]

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#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion of our financial condition and results of operations should be read in conjunction with the financial statements and the related notes thereto included elsewhere in this Annual Report. This discussion and analysis contain forward-looking statements that are based on our management's current beliefs and assumptions, which statements are subject to substantial risks and uncertainties. Our actual results may differ materially from those expressed or implied by these forward-looking statements as a result of many factors, including those discussed in "Risk Factors" in Item 14 of this Annual Report. Please also see "Cautionary Note Regarding Forward-Looking Statements" and "Risk Factor Summary" at the beginning of this Annual Report.

#### Overview

We are leveraging experience with pre-clinical enhanced ultrasound devices to develop technology for increasing the capabilities of clinical diagnostic ultrasound and other types of capital equipment, to broaden patient access to the safe diagnosis and treatment of a number of significant medical conditions in circumstances where expensive X-ray CT and MRI technology, or other diagnostic technologies such as surgical biopsy, are unavailable or impractical. Building on our expertise in thermoacoustics, we have developed a next-generation technology platform-Thermo Acoustic Enhanced Ultrasound, or TAEUS-which is intended to enhance the capability of clinical ultrasound technology and support the diagnosis and treatment of a number of significant medical conditions that currently require the use of expensive CT or MRI imaging or where imaging is not practical using existing technology.

The first-generation TAEUS application is a standalone ultrasound accessory designed to cost-effectively quantify fat in the liver and stage progression of nonalcoholic fatty liver disease ("NAFLD"), which can otherwise only be achieved today with impractical surgical biopsies or MRI scans. Subsequent TAEUS offerings are expected to be implemented via a second-generation hardware platform that can run multiple clinical software applications that we will offer TAEUS users for a licensing fee-adding ongoing customer value to the TAEUS platform and a growing software revenue stream for our Company.

Each of our TAEUS platform applications will require regulatory approvals before we are able to sell or license the application. Based on certain factors, such as the installed base of ultrasound systems, availability of other imaging technologies, such as CT and MRI, economic strength and applicable regulatory requirements, we intend to seek initial approval of our applications for sale in the European Union and the United States, followed by China.

In March 2020, we received CE mark approval for our TAEUS FLIP ("Fatty Liver Imaging Probe") System, enabling its marketing and sales in the European Union and other CE mark geographies, including the 27 EU member states.

In June 2020, we submitted a 510(k) Application to the FDA for our TAEUS Fatty Live Imaging Probe ("FLIP") System. In February 2022, we announced that we would pursue FDA reclassification and clearance of our TAEUS FLIP System through the FDA's "de novo" process. We subsequently voluntarily withdrew our 510(k) Application submitted a de novo request for the TAEUS system to the FDA in the third quarter of 2023. In the fourth quarter of 2023, the FDA sent us an AI request related to our de novo application. Since we received the AI request, we have had several interactions with the FDA and have provided additional information. In order to fully respond to the FDA's questions, we will need to compile additional clinical data, provide additional device test data, and respond to cybersecurity related questions in a new de novo submission. We have a scheduled in-person pre-submission meeting with the FDA in the second quarter of 2024. We currently anticipate completing the necessary clinical studies by the fourth quarter of 2024 and submitting the new de novo request to the FDA in the first half of 2025.

# **Financial Operations Overview**

# <u>Revenue</u>

No revenue has been generated by our TAEUS technology, which we have not commercially sold as of December 31, 2023.

## Research and Development Expenses

Our research and development expenses primarily include wages, fees and equipment for the development of our TAEUS technology platform and the proposed applications. Additionally, we incur certain costs associated with the protection of our products and inventions through a combination of patents, licenses, applications and disclosures. These costs and expenses include:

- · employee-related expenses, such as salaries, bonuses and benefits, consultant-related expenses such as consultant fees and bonuses, stock-based compensation, overhead related expenses and travel-related expenses for our research and development personnel;
- · expenses incurred under agreements with contract research organizations ("CROs"), contract manufacturing organizations ("CMOs") as well as consultants that support the implementation of our clinical and non-clinical studies;
- · manufacturing and packaging costs in connection with conducting clinical trials;
- formulation, research and development expenses related to our TAEUS technology; and
- costs for sponsored research.

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We plan to incur research and development expenses for the foreseeable future as we expect to continue the development of TAEUS and pursue FDA approval of the NAFLD TAEUS system. At this time, due to the inherently unpredictable nature of clinical development and regulatory approvals, we are

unable to estimate with certainty the costs we will incur and the timelines we will require in our continued development efforts.

#### Sales and Marketing Expenses

Sales and marketing expenses consist primarily of headcount and consulting costs, and marketing and tradeshow expenses. Currently, our marketing efforts are through our website and attendance of key industry meetings and conferences. In connection with the commercialization of our TAEUS applications, we are building a small sales and marketing team to train and support global ultrasound distributors and expect to execute traditional marketing activities such as promotional materials, electronic media and participation in industry events and conferences. As of December 31, 2023, we had a full-time sales representative in each of the United Kingdom, France and Germany. We expect to continue actively adding to our sales representation and support headcount for operations in the EU in the coming quarters, and plan to begin staffing our sales efforts in the United States once we have obtained FDA approval for the sale of the NAFLD TAEUS device in that region.

#### General and Administrative Expenses

General and administrative expenses consist primarily of salaries and related expenses for our management and personnel, and professional fees, such as for accounting, consulting and legal services. We anticipate that our general and administrative expenses will increase in the future as we support our continued research and development activities, expand our sales and marketing operations, and continue as a public company. These increases would likely include increased costs related to the hiring of personnel, including compensation and employee-related expenses, including stock-based compensation, and fees to outside consultants, lawyers and accountants, among other expenses. Additionally, we anticipate continued costs associated with being a public company, including expenses related to services associated with maintaining compliance with The Nasdaq Capital Market and SEC requirements, directors and officers insurance, increased legal and accounting costs and investor relations costs.

## **Critical Accounting Policies and Estimates**

## Use of Estimates

The preparation of the financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent liabilities at the date of the financial statements and the reported amounts of expenses during the reporting period. Actual results could differ from those estimates.

Management makes estimates that affect certain accounts including inventory reserve, deferred income tax assets, accrued expenses, fair value of equity instruments and reserves for any other commitments or contingencies. Any adjustments applied to estimates are recognized in the period in which such adjustments are determined.

## **Share-based Compensation**

Our Omnibus Plan permits the grant of stock options and other stock awards to our employees, consultants and non-employee members of our board of directors. Each January 1 the pool of shares available for issuance under the Omnibus Plan automatically increases by an amount equal to the lesser of (i) the number of shares necessary such that the aggregate number of shares available under the Omnibus Plan equals 25% of the number of fully-diluted outstanding shares on the increase date (assuming the conversion of all outstanding shares of preferred stock and other outstanding convertible securities and exercise of all outstanding options and warrants to purchase shares) and (ii) if the board of directors takes action to set a lower amount, the amount determined by the board. On January 1, 2024, the pool of shares issuable under the Omnibus Plan automatically increased by 1,717,783 shares from 1,322,169 shares to 3,039,952 shares. As of December 31, 2023, there were 663,633 shares of common stock remaining available for issuance under the Omnibus Plan.

We record share-based compensation in accordance with the provisions of the Share-based Compensation Topic of the FASB Codification. The guidance requires the use of option-pricing models that require the input of highly subjective assumptions, including the option's expected life and the price volatility of the underlying stock. The fair value of each option grant is estimated on the date of grant using the Black-Scholes option valuation model which uses certain assumptions related to risk-free interest rates, expected volatility, expected life of the common stock options, and future dividends, and the resulting charge is expensed using the straight-line attribution method over the vesting period.

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Stock compensation expense recognized during the period is based on the value of share-based awards that were expected to vest during the period adjusted for estimated forfeitures. The estimated fair value of grants of stock options and warrants to non-employees is charged to expense, if applicable, in the financial statements.

## Recent Accounting Pronouncements

See Note 2 of the accompanying financial statements for a discussion of recently issued accounting standards.

## **Results of Operations**

Years ended December 31, 2023 and 2022

Revenue

We had no revenue during the years ended December 31, 2023 and 2022.

Cost of Goods Sold

We had no cost of goods sold during the years ended December 31, 2023 and 2022.

#### Research and Development

Research and development expenses were \$5,003,695 for the year ended December 31, 2023, as compared to \$6,554,194 for the year ended December 31, 2022, a decrease of \$1,550,499 or 24%. The costs include primarily wages, fees and equipment for the development of our TAEUS product line. Research and development expenses decreased from the prior year as we completed development of our initial TAEUS product and began focusing our spending on commercialization of the product that has been developed.

#### Sales and Marketing

Sales and marketing expenses were \$820,554 for the year ended December 31, 2023, as compared to \$1,429,150 for the year ended December 31, 2022, a decrease of \$608,596, or 43%. The costs include primarily headcount and pre-selling activities for our TAEUS product line. Sales and marketing expenses decreased largely due to the departure of our Chief Commercial Officer. Currently, our marketing efforts are through our website and attendance of key industry meetings.

#### General and Administrative

Our general and administrative expenses for the year ended December 31, 2023 were \$4,696,486, compared to \$5,174,215 for the year ended December 31, 2022, a decrease of \$477,729, or 9%. Our wage and related expenses for the year ended December 31, 2023 were \$1,554,670, compared to \$2,123,291 for the year ended December 31, 2022. Wage and related expenses in the year ended December 31, 2023 included \$339,696 of stock compensation expense related to the issuance and vesting of options, compared to \$416,508 of stock compensation expense related to the issuance and vesting of options, for the year ended December 31, 2022. Our professional fees, which include legal, audit, and investor relations, for the year ended December 31, 2023 were \$1,980,464, compared to \$2,047,964 for the year ended December 31, 2022.

#### Other Income

Other income for the year ended December 31, 2023 was \$460,485, and resulted mostly from the Employer Retention Tax Credit for employee retention in 2021 and 2022 of \$413,844.

#### Net Loss

As a result of the foregoing, for the year ended December 31, 2023, we recorded a net loss of \$10,060,250, compared to a net loss of \$13,179,092 for the year ended December 31, 2022.

## **Near-Term Liquidity and Capital Resources**

Since inception, we have incurred losses and expect to continue to incur losses for the foreseeable future. As of December 31, 2023, we had an accumulated deficit of \$91,930,152 and had \$2,833,907 in cash. To date we have funded our operations through private and public sales of our securities and will need to raise additional funds in order to execute on our business plan, fully commercialize our TAEUS technology, and generate revenues. If we are unable to obtain adequate financing or financings in the near term on terms satisfactory to us, or at all, we may be forced to undertake additional measures, which may include delaying or reducing our product development programs and commercialization efforts, materially curtailing or eliminating our operations, selling or disposing of our rights or assets, pursuing sale or other strategic transactions, or undergoing restructuring or insolvency proceedings.

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We need additional capital to allow us to continue to execute our commercialization plans through the second quarter of 2024. We are considering potential financing options that may be available to us, including sales of our common stock through our at-the-market sales program (the "ATM Program") with Ascendiant Capital Markets, LLC. Except for the ATM Program, we have no commitments to obtain any additional funds, and there can be no assurance funds will be available in sufficient amounts or on acceptable terms. If we are unable to obtain sufficient additional financing in a timely fashion and on terms acceptable to us, our financial condition and results of operations may be materially adversely affected and we may not be able to continue operations or execute our stated commercialization plan.

The consolidated financial statements included in this Form 10-K have been prepared assuming we will continue as a going concern, which contemplates the realization of assets and the settlement of liabilities and commitments in the normal course of business. As reflected in the accompanying consolidated financial statements, during the year ended December 31, 2023, we incurred net losses of \$10,060,250 and used cash in operations of \$9,548,775. In light of our cash balance as of December 31, 2023, we will need to raise additional capital in order to fund operations through the next twelve months, and prior to any ability to fund operations from revenue generated from the sale of our products. The financial statements do not include any adjustments that might be necessary should we be unable to continue as a going concern.

## **Operating Activities**

During the year ended December 31, 2023, we used \$9,548,775 of cash in operating activities primarily as a result of our net loss of \$10,060,250, offset by share-based compensation of \$996,430, amortization of right of use assets of \$151,725, inventory reserve of \$138,045, depreciation expense of \$123,726, fixed assets write-off of \$24,868, and net changes in operating assets and liabilities of \$(923,319).

During the year ended December 31, 2022, we used \$12,769,371 of cash in operating activities primarily as a result of our net loss of \$13,179,092, offset by share-based compensation of \$1,199,838, amortization of right of use assets of \$137,597, depreciation expense of \$96,661, fixed assets write-off of \$1,391, and net changes in operating assets and liabilities of \$(1,025,766).

## **Investing Activities**

During the year ended December 31, 2023, we used \$33,844 in investing activities related to purchases of fixed assets, and received \$9,163 in proceeds from sale of fixed assets.

During the year ended December 31, 2022, we used \$202,577 in investing activities related to purchases of equipment.

#### Financing Activities

During the year ended December 31, 2023, our financing activities provided \$6,483,393 in proceeds from issuances of common stock \$20,053 in proceeds from issuances of common stock warrants, and \$1,014,859 in proceeds from warrant exercises.

During the year ended December 31, 2022, our financing activities provided \$8,399,512 in proceeds from issuances of common stock.

## **Long-Term Liquidity**

We have not completed the commercialization of any of our TAEUS technology platform applications. We expect to continue to incur significant expenses for the foreseeable future. We anticipate that our expenses will increase substantially as we:

- advance the engineering design and development of our TAEUS technology;
- · acquire parts and build finished goods inventory of the TAEUS FLIP system;
- · complete regulatory filings required for marketing approval of our NAFLD TAEUS application in the United States, including clinical studies to advance our de novo application with the FDA;
- · seek to hire a small internal marketing team to engage and support channel partners and clinical customers for our NAFLD TAEUS application;
- · expand marketing of our NAFLD TAEUS application;
- · advance development of our other TAEUS applications; and
- add operational, financial and management information systems and personnel, including personnel to support our product development, planned commercialization efforts and our operation as a public company.

It is possible that we will not achieve the progress that we expect because the actual costs and timing of completing the development and regulatory approvals for a new medical device are difficult to predict and are subject to substantial risks and delays. We have no committed external sources of funds except for the February 2024 ATM Agreement, the use of which may be limited due to registration statement rules relating to public float. We do not expect that our existing cash will be sufficient for us to complete the commercialization of our NAFLD TAEUS application or to complete the development of any other TAEUS application and we will need to raise substantial additional capital for those purposes. As a result, we will need to finance our future cash needs through public or private equity offerings, debt financings, corporate collaboration and licensing arrangements or other financing alternatives. Our forecast of the period of time through which our financial resources will be adequate to support our operations is a forward-looking statement and involves risks and uncertainties, and actual results could vary as a result of a number of factors, including the factors discussed in the Risk Factors section of this Annual Report on Form 10-K. We have based this estimate on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we currently expect.

Until we can generate a sufficient amount of revenue from our TAEUS platform applications, if ever, we expect to finance future cash needs through public or private equity offerings, debt financings or corporate collaborations and licensing arrangements. Additional funds may not be available when we need them on terms that are acceptable to us, or at all. If adequate funds are not available, we may be required to delay, reduce the scope of or eliminate one or more of our research or development programs or our commercialization efforts or perhaps even cease the operation of our business. To the extent that we raise additional funds by issuing equity securities, our stockholders may experience additional dilution, and debt financing, if available, may involve restrictive covenants. To the extent that we raise additional funds through collaborations and licensing arrangements, it may be necessary to relinquish some rights to our technologies or applications or grant licenses on terms that may not be favorable to us. We may seek to access the public or private capital markets whenever conditions are favorable, even if we do not have an immediate need for additional capital at that time.

## **Off-Balance Sheet Transactions**

At December 31, 2023, the Company did not have any transactions, obligations or relationships that could be considered off-balance sheet arrangements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Not applicable.

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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 ENDRA Life Sciences Inc. and Subsidiaries

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of ENDRA Life Sciences Inc. and Subsidiaries (collectively, the "Company") as of December 31, 2023 and 2022, the related consolidated statements of operations, shareholders' equity and cash flows for each of the two years in the period ended December 31, 2023, and the related notes and schedules (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2023 and 2022 in conformity with accounting principles generally accepted in the United States of America.

## The Company's Ability to Continue as a Going Concern

The accompanying consolidated financial statements have been prepared assuming the Company will continue as a going concern. As discussed in Note 2 to the accompanying consolidated financial statements, the Company has suffered recurring losses from operations, generated negative cash flows from operating activities, has an accumulated deficit and has stated that substantial doubt exists about Company's ability to continue as a going concern. Management's evaluation of the events and conditions and management's plans in regarding these matters are also described in Note 2. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

# **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements 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 audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits 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. We believe that our audits provide a reasonable basis for our opinion.

## **Critical Audit Matters**

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments.

We determined that there are no critical audit matters.

/s/ RBSM LLP

We have served as the Company's auditor since 2015.

New York, NY March 28, 2024 F-1

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# **ENDRA Life Sciences Inc.** Consolidated Balance Sheets

| Assets  |    | December 31,<br>2023 |    | December 31,<br>2022 |  |
|---|----|----------------------|----|----------------------|--|
| Current Assets  |    |                      |    |                      |  |
| Cash and cash equivalents   | \$ | 2,833,907            | \$ | 4,889,098            |  |
| Prepaid expenses  |    | 198,905              |    | 490,299              |  |
| Total Current Assets  |    | 3,032,812            |    | 5,379,397            |  |
| Non-Current Assets  |    |                      |    |                      |  |
| Inventory   |    | 2,622,865            |    | 2,644,717            |  |
| Fixed assets, net   |    | 111,782              |    | 235,655              |  |
| Right of use assets   |    | 354,091              |    | 505,816              |  |
| Prepaid expenses, long term   |    | 626,610              |    | 502,576              |  |
| Other assets  |    | 5,986                |    | 5,986                |  |
| Total Assets  | \$ | 6,754,146            | \$ | 9,274,147            |  |
| Liabilities and Stockholders' Equity  |    |                      |    |                      |  |
| Current Liabilities   | Ф  | 700 754              | Ф  | 1 500 010            |  |
| Accounts payable and accrued liabilities  | \$ | 700,754              | \$ | 1,523,012            |  |
| Lease liabilities, current portion  |    | 173,857              |    | 152,228              |  |
| Loans   | _  | 28,484               |    | 28,484               |  |
| Total Current Liabilities   |    | 903,095              |    | 1,703,724            |  |
| Long Term Debt  |    |                      |    |                      |  |
| Loans, long term  |    | -                    |    | -                    |  |
| Lease liabilities   |    | 192,062              |    | 365,919              |  |
| Total Long Term Debt  |    | 192,062              |    | 365,919              |  |
| Total Liabilities   |    | 1,095,157            |    | 2,069,643            |  |
| Stockholders' Equity  |    |                      |    |                      |  |
| Series A Convertible Preferred Stock, \$0.0001 par value; 10,000 shares authorized; 141.397 shares issued and       |    |                      |    |                      |  |
| outstanding   |    | 1                    |    | 1                    |  |
| Series B Convertible Preferred Stock, \$0.0001 par value; 1,000 shares authorized; no shares issued and outstanding |    | -                    |    | -                    |  |
| Series C Convertible Preferred Stock, \$0.0001 par value; 100,000 shares authorized; no shares issued and           |    |                      |    |                      |  |
| outstanding   |    | -                    |    | _                    |  |
| Common stock, \$0.0001 par value; 80,000,000 shares authorized; 10,390,150 and 3,169,103 shares issued and          |    |                      |    |                      |  |
| outstanding, respectively   |    | 1,039                |    | 317                  |  |
| Additional paid in capital  |    | 97,582,868           |    | 89,068,015           |  |
| Stock payable   |    | 5,233                |    | 6,073                |  |
| Accumulated deficit   |    | (91,930,152)         |    | (81,869,902)         |  |
| Total Stockholders' Equity  |    | 5,658,989            |    | 7,204,504            |  |
| Total Liabilities and Stockholders' Equity  |    | 6,754,146            | \$ | 9,274,147            |  |

The accompanying notes are an integral part of these consolidated financial statements.

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# **ENDRA Life Sciences Inc. Consolidated Statements of Operations**

| Operating Expanses         | <br>Year Ended<br>December 31,<br>2023 |    | Year Ended<br>December 31,<br>2022 |  |
|----------------------------|--|----|------------------------------------|--|
| Operating Expenses         |  |    |                                    |  |
| Research and development   | \$<br>5,003,695                        | \$ | 6,554,194                          |  |
| Sales and marketing        | 820,554                                |    | 1,429,150                          |  |
| General and administrative | 4,696,486                              |    | 5,174,215                          |  |
| Total operating expenses   | <br>10,520,735                         |    | 13,157,559                         |  |
|                            |  |    | _                                  |  |
| Operating loss             | (10,520,735)                           |    | (13,157,559)                       |  |
|                            |  |    |                                    |  |

| Other Income (Expenses)                            |                 |                 |
|--|-----------------|-----------------|
| Other income (expenses)                            | 460,485         | (21,533)        |
| Total other income (expenses)                      | 460,485         | (21,533)        |
|  |                 |                 |
| Loss from operations before income taxes           | (10,060,250)    | (13,179,092)    |
|  |                 |                 |
| Provision for income taxes                         | -               | -               |
|  |                 |                 |
| Net Loss   | \$ (10,060,250) | \$ (13,179,092) |
|  | Φ (1.50)        | Φ (4.56)        |
| Net loss per share – basic and diluted             | \$ (1.58)       | \$ (4.56)       |
|  | 6.262.750       | 2 001 202       |
| Weighted average common shares – basic and diluted | 6,363,759       | 2,891,292       |

The accompanying notes are an integral part of these consolidated financial statements.

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# **ENDRA Life Sciences Inc. Consolidated Statements of Stockholders' Equity**

| Year   | Consolidated Statements of Stockholders' Equity |                         |             |                        |           |         |                       |           |                 |                        |
|--|---|-------------------------|-------------|------------------------|-----------|---------|-----------------------|-----------|-----------------|------------------------|
| Ended<br>December<br>31, 2022  |   | Convertible<br>ed Stock |             | onvertible<br>ed Stock | Commo     | n stock | Additional<br>Paid in | Stock     | Accumulated     | Total<br>Stockholders' |
| ,  | Shares  | Amount                  | Shares      | Amount                 | Shares    | Amount  | Capital               | Payable   | Deficit         | Equity                 |
| Balance<br>as of<br>December   | 141 207   | ¢ 1                     |             |                        | 2 127 726 | ¢ 212   |                       |           | \$ (69 600 910) |                        |
| 31, 2021<br>Common<br>stock<br>issued for<br>cash, net<br>of funding                                 | 141.397   | \$ 1                    | -           | -                      | 2,127,726 | \$ 212  |                       | \$ 13,863 | \$ (68,690,810) | \$ 10,784,246          |
| costs Fair value of vested stock   | -   | -                       | -           | -                      | 1,041,377 | 105     |                       | -         | -               | 8,399,512              |
| options Stock payable towards preference   | -   | -                       | -           | •                      | -         | -       | 1,199,838             | -         | -               | 1,199,838              |
| dividend   | -   | -                       | -           | -                      | -         | -       | 7,790                 | (7,790)   | - (10.150.000)  | - (12 150 002)         |
| Net loss Balance as of December  |   |                         |             | <u> </u>               |           |         |                       |           | (13,179,092)    | (13,179,092)           |
| 31, 2022   | 141.397   | \$ 1                    |             |                        | 3,169,103 | \$ 317  | \$89,068,015          | \$ 6,073  | \$ (81,869,902) | \$ 7,204,504           |
| Year<br>Ended<br>December<br>31, 2023  |   | ed Stock                | Series B Co | d Stock                | Commo     |         | Additional<br>Paid in | Stock     | Accumulated     | Total<br>Stockholders' |
|  | Shares  | Amount                  | Shares      | Amount                 | Shares    | Amount  | Capital               | Payable   | Deficit         | Equity                 |
| Balance<br>as of<br>December<br>31, 2022<br>Common<br>stock<br>issued for<br>cash, net<br>of funding | 141.397   | \$ 1                    | -           |                        | 3,169,103 | \$ 317  | \$89,068,015          | \$ 6,073  | \$ (81,869,902) | \$ 7,204,504           |
| costs Common stock issued for warrant  | -   | -                       | -           | -                      | 5,637,547 | 564     | 6,482,829             | -         | _               | 6,483,393              |
| exercise<br>Warrants<br>issued for<br>cash, net  | -   | -                       | -<br>-      | -                      | 1,583,500 | 158     |                       | -         | -               | 1,014,859<br>20,053    |

| of funding |         |              |          |          |            |             |              |              |                 |              |
|------------|---------|--------------|----------|----------|------------|-------------|--------------|--------------|-----------------|--------------|
| costs      |         |              |          |          |            |             |              |              |                 |              |
| Fair value |         |              |          |          |            |             |              |              |                 |              |
| of vested  |         |              |          |          |            |             |              |              |                 |              |
| stock      |         |              |          |          |            |             |              |              |                 |              |
| options    | -       | -            | -        | -        | -          | -           | 996,430      | -            | -               | 996,430      |
| Stock      |         |              |          |          |            |             |              |              |                 |              |
| payable    |         |              |          |          |            |             |              |              |                 |              |
| towards    |         |              |          |          |            |             |              |              |                 |              |
| preference |         |              |          |          |            |             |              |              |                 |              |
| dividend   | -       | -            | -        | -        | -          | -           | 840          | (840)        | -               | -            |
| Net loss   |         | <br><u> </u> | <u> </u> | <u>-</u> |            | <br>-       |              | <br><u>-</u> | (10,060,250)    | (10,060,250) |
| Balance    |         |              |          |          |            |             |              |              |                 |              |
| as of      |         |              |          |          |            |             |              |              |                 |              |
| December   |         |              |          |          |            |             |              |              |                 |              |
| 31, 2023   | 141.397 | \$<br>1      | -        | -        | 10,390,150 | \$<br>1,039 | \$97,582,868 | \$<br>5,233  | \$ (91,930,152) | \$ 5,658,989 |

The accompanying notes are an integral part of these consolidated financial statements.

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# **ENDRA Life Sciences Inc. Consolidated Statements of Cash Flows**

| Cook Flows from Or anting Astritics   | Year Ended<br>December 31,<br>2023 | Year Ended<br>December 31,<br>2022      |
|---|------------------------------------|---|
| Cash Flows from Operating Activities Net loss                               | \$ (10,060,250)                    | \$ (13,179,092)                         |
| Adjustments to reconcile net loss to net cash used in operating activities: | \$ (10,060,230)                    | \$ (13,179,092)                         |
| Depreciation and amortization   | 123,726                            | 96,661                                  |
| Fixed assets write off  | 24,868                             | 1,391                                   |
| Inventory reserve   | 138,045                            | 1,391                                   |
| Stock compensation expense including common stock issued for RSUs           | 996,430                            | 1,199,838                               |
| Amortization of right of use assets   | 151,725                            | 137,597                                 |
| Changes in operating assets and liabilities:                                | 131,723                            | 137,377                                 |
| Decrease in prepaid expenses  | 167,360                            | 355,128                                 |
| Increase in inventory   | (116,193)                          | (1,360,139)                             |
| Decrease in accounts payable and accrued liabilities                        | (822,258)                          | 111,575                                 |
| Decrease in lease liability   | (152,228)                          | (132,330)                               |
| Net cash used in operating activities                                       | (9,548,775)                        | (12,769,371)                            |
| iver easil used in operating activities                                     | (9,548,775)                        | (12,709,371)                            |
| Cash Flows from Investing Activities  |                                    |   |
| Purchases of fixed assets   | (33,884)                           | (202,577)                               |
| Proceeds from sale of fixed assets  | 9,163                              | (202,377)                               |
| Net cash used in investing activities                                       | (24,721)                           | (202,577)                               |
| ivet cash used in investing activities                                      | (24,721)                           | (202,377)                               |
| Cash Flows from Financing Activities  |                                    |   |
| Proceeds from issuance of common stock                                      | 6,483,393                          | 8,399,512                               |
| Proceeds from issuance of warrants  | 20,053                             | 0,577,512                               |
| Proceeds from warrant exercise  | 1,014,859                          | _                                       |
| Net cash provided by financing activities                                   | 7,518,305                          | 8,399,512                               |
| Net eash provided by intahenig activities                                   | 7,310,303                          | 0,377,312                               |
| Net decrease in cash  | (2,055,191)                        | (4,572,436)                             |
| 1 tot decrease in easi  | (2,033,171)                        | (1,372,130)                             |
| Cash, beginning of year   | 4,889,098                          | 9,461,534                               |
| Cuch, 048g 01 y u   | .,,,,,,,                           | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Cash, end of year   | \$ 2,833,907                       | \$ 4,889,098                            |
| ,,  | <del>,,</del>                      | + 1,000,000                             |
| Supplemental disclosures of cash items                                      |                                    |   |
| Interest paid   | \$ 44,985                          | \$ 59,113                               |
| Income tax paid   | \$ -                               | \$ -                                    |
| moone as paid   | <u>Ψ</u>                           | Ψ                                       |
| Supplemental disclosures of non-cash items                                  |                                    |   |
| Stock dividend payable  | \$ 840                             | \$ 7,790                                |
| Right of use asset  | \$ 354,091                         | \$ 505,816                              |
| right of use asset  | φ 334,091                          | ψ 505,610                               |

The accompanying notes are an integral part of these consolidated financial statements.

## ENDRA Life Sciences Inc. Notes to Consolidated Financial Statements For the years ended December 31, 2023 and 2022

#### Note 1 - Nature of the Business

ENDRA Life Sciences Inc. ("ENDRA" or the "Company") has developed and is continuing to develop technology for characterizing tissue non-invasively, at the point of patient care, to broaden patient access to the safe diagnosis and treatment of a number of significant medical conditions in circumstances where expensive X-ray computed tomography ("CT"), magnetic resonance imaging ("MRI") or other technologies are unavailable or impractical.

ENDRA was incorporated on July 18, 2007 as a Delaware corporation.

Certain reclassifications have been made to the 2022 consolidated financial statements in order to conform to the current period presentations. These classifications did not impact the net loss for the period ended December 31, 2023.

#### Note 2 - Summary of Significant Accounting Policies and Going Concern

#### Use of Estimates

The preparation of the financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent liabilities at the date of the financial statements and the reported amounts of expenses during the reporting period. Actual results could differ from those estimates.

Management makes estimates that affect certain accounts including inventory reserve, deferred income tax assets, accrued expenses, fair value of equity instruments and reserves for any other commitments or contingencies. Any adjustments applied to estimates are recognized in the period in which such adjustments are determined.

#### Principles of Consolidation

The Company's consolidated financial statements include all accounts of the Company and its consolidated subsidiaries and/or entities as of reporting period ending date(s) and for the reporting period(s) then ended. All inter-company balances and transactions have been eliminated.

#### Basis of Presentation

The financial statements and related disclosures have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission ("SEC"). These financial statements have been prepared using the accrual basis of accounting in accordance with Generally Accepted Accounting Principles ("GAAP") of the United States.

# Cash and Cash Equivalents

The Company considers all cash on hand and in banks, including accounts in book overdraft positions, certificates of deposit, and other highly liquid investments with maturities of one year or less, when purchased, to be cash. Cash equivalents include investments in an institutional money market fund, which invests in U.S. Treasury bills, notes and bonds, and/or repurchase agreements, backed by such obligations. Carrying value approximates fair value. The Company maintains its cash in bank deposit accounts which, at times, may exceed federally insured limits. The Company has not experienced any losses in such accounts and periodically evaluates the creditworthiness of the financial institutions and has determined the credit exposure to be negligible. The Company maintains cash deposits at multiple banks to mitigate the risk associated with a failure of any specific bank.

#### Inventory

The Company's inventory is stated at the lower of cost or estimated net realizable value, with cost primarily determined on a weighted-average cost basis on the first-in, first-out method. The Company periodically determines whether a reserve should be taken for devaluation or obsolescence of inventory. The Company assessed its inventory at December 31, 2023 and determined that certain challenges, including potential damage and a longer timeframe for initial sales, warranted the establishment of an inventory shrinkage reserve. As a result, the Company recognized an inventory reserve of 5% amounting to \$138,045, which resulted in the net carrying value of inventory of \$2,622,865.

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#### Capitalization of Fixed Assets

The Company capitalizes expenditures related to property and equipment, subject to a minimum rule, that have a useful life greater than one year for: (1) assets purchased; (2) existing assets that are replaced, improved or the useful lives have been extended; or (3) all land, regardless of cost. Acquisitions of new assets, additions, replacements and improvements (other than land) costing less than the minimum rule in addition to maintenance and repair costs, including any planned major maintenance activities, are expensed as incurred.

#### Leases

Accounting Standards Update ("ASU") No. 2016-02 requires a lessee to record a right of use asset and a corresponding lease liability on the balance sheet for all leases with terms longer than 12 months. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest period presented in the financial statements. At December 31, 2023 and 2022 the Company recorded a right of use asset of \$354,091 and \$505,816, respectively. At December 31, 2023 and 2022 the Company recorded a lease liability of \$365,919 and \$518,147, respectively.

#### Revenue Recognition

ASU No. 2014-09, "Revenue from Contracts with Customers" ("ASC Topic 606") provides a single set of guidelines for revenue recognition to be used across all industries and requires additional disclosures. The updated guidance introduces a five-step model to achieve its core principal of the entity recognizing revenue to depict the transfer of goods or services to customers at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services.

Under ASC Topic 606, in order to recognize revenue, the Company is required to identify an approved contract with commitments to perform respective obligations, identify rights of each party in the transaction regarding goods to be transferred, identify the payment terms for the goods transferred, verify that the contract has commercial substance and verify that collection of substantially all consideration is probable. The adoption of ASC Topic 606 did not have an impact on the Company's operations or cash flows.

#### Research and Development Costs

The Company follows FASB Accounting Standards Codification ("ASC") Subtopic 730-10, "Research and Development". Research and development costs are charged to the statement of operations as incurred. During the years ended December 31, 2023 and 2022, the Company incurred \$5,003,695 and \$6,554,194 of expenses related to research and development costs, respectively.

#### Net Earnings (Loss) Per Common Share

The Company computes earnings per share under ASC Subtopic 260-10, "Earnings Per Share". Basic earnings (loss) per share is computed by dividing the net income (loss) attributable to the common stockholders (the numerator) by the weighted average number of shares of common stock outstanding (the denominator) during the reporting periods. Diluted loss per share is computed by increasing the denominator by the weighted average number of additional shares that could have been outstanding from securities convertible into common stock (using the "treasury stock" method), unless their effect on net loss per share is anti-dilutive. There were 1,514,715 and 410,358 potentially dilutive shares, which include outstanding common stock options, and warrants, as of December 31, 2023 and 2022, respectively.

|   | December 31, | December 31, |
|---|--------------|--------------|
|   | 2023         | 2022         |
| Options to purchase common stock  | 624,240      | 391,902      |
| Warrants to purchase common stock                                       | 882,349      | 10,330       |
| Shares issuable upon conversion of Series A Convertible Preferred Stock | 8,126        | 8,126        |
| Potential equivalent shares excluded                                    | 1,514,715    | 410,358      |

#### Fair Value Measurements

Disclosures about fair value of financial instruments require disclosure of the fair value information, whether or not recognized in the balance sheet, where it is practicable to estimate that value.

In accordance with ASC Topic 820, "Fair Value Measurements and Disclosures," the Company measures certain financial instruments at fair value on a recurring basis. ASC Topic 820 defines fair value, established a framework for measuring fair value in accordance with accounting principles generally accepted in the United States, and expands disclosures about fair value measurements.

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Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. ASC Topic 820 established a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). These tiers include:

- · Level 1, defined as observable inputs such as quoted prices for identical instruments in active markets;
- Level 2, defined as inputs other than quoted prices in active markets that are either directly or indirectly observable such as quoted prices for similar instruments in active markets or quoted prices for identical or similar instruments in markets that are not active; and
- Level 3, defined as unobservable inputs in which little or no market data exists, therefore requiring an entity to develop its own assumptions, such as valuations derived from valuation techniques in which one or more significant inputs or significant value drivers are unobservable.

Financial assets are considered Level 3 when their fair values are determined using pricing models, discounted cash flow methodologies or similar techniques and at least one significant model assumption or input is unobservable.

The carrying amounts of the Company's financial assets and liabilities, including cash, accounts receivable, prepaid expenses, accounts payable, accrued expenses, and other current liabilities, approximate their fair values because of the short maturity of these instruments. The fair value of notes payable and convertible notes approximates their fair values since the current interest rates and terms on these obligations are the same as prevailing market rates.

# **Share-based Compensation**

The Company's 2016 Omnibus Incentive Plan (the "Omnibus Plan") permits the grant of stock options and other share-based awards to its employees, consultants and non-employee members of the board of directors. Each January 1 the pool of shares available for issuance under the Omnibus Plan automatically increases by an amount equal to the lesser of (i) the number of shares necessary such that the aggregate number of shares available under the Omnibus Plan equals 25% of the number of fully-diluted outstanding shares on the increase date (assuming the conversion of all outstanding shares of preferred stock and other outstanding convertible securities and exercise of all outstanding options and warrants to purchase shares) and (ii) if the board of

directors takes action to set a lower amount, the amount determined by the board. Effective January 1, 2024, the pool of shares issuable under the Omnibus Plan automatically increased by 1,717,783 shares from 1,322,169 shares to 3,039,952 shares.

The Company records share-based compensation in accordance with the provisions of the Share-based Compensation Topic of the FASB Codification. The guidance requires the use of option-pricing models that require the input of highly subjective assumptions, including the option's expected life and the price volatility of the underlying stock. The fair value of each option grant is estimated on the date of grant using the Black-Scholes option valuation model, and the resulting charge is expensed using the straight-line attribution method over the vesting period.

Stock compensation expense recognized during the period is based on the value of share-based awards that were expected to vest during the period adjusted for estimated forfeitures. The estimated fair value of grants of stock options and warrants to non-employees of the Company is charged to expense, if applicable, in the financial statements. These options vest in the same manner as the employee options granted under the stock incentive plan as described above.

#### Going Concern

The Company's financial statements are prepared using accounting principles generally accepted in the United States ("U.S. GAAP") applicable to a going concern, which contemplates the realization of assets and liquidation of liabilities in the normal course of business. The Company has limited commercial experience and had a cumulative net loss from inception to December 31, 2023 of \$91,930,152. The Company had working capital of \$2,129,717 as of December 31, 2023. The Company has not established an ongoing source of revenue sufficient to cover its operating costs and to allow it to continue as a going concern and will require additional financing to fund its future planned operations, including research and development and commercialization of its products. These matters raise substantial doubt about the Company's ability to continue as going concern. The accompanying financial statements for the year ended December 31, 2023 have been prepared assuming the Company will continue as a going concern, but the ability of the Company to continue as a going concern is dependent on the Company obtaining adequate capital to fund operating losses until it establishes a revenue stream and becomes profitable. Management's plans to continue as a going concern include raising additional capital through sales of equity securities and borrowing. However, management cannot provide any assurances that the Company will be successful in accomplishing any of its plans. If the Company is not able to obtain the necessary additional financing on a timely basis, the Company will be required to delay, reduce the scope of, or eliminate one or more of the Company's research and development activities or commercialization efforts or perhaps even cease the operation of its business. The ability of the Company to continue as a going concern is dependent upon its ability to successfully secure other sources of financing and attain profitable operations. The accompanying consolidated financial statements do not include any adjustments that mi

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#### Recent Accounting Pronouncements

The Company considered recent accounting pronouncements issued by the FASB, including its Emerging Issues Task Force, the American Institute of Certified Public Accountants, and the SEC, did not or in management's opinion will not have a material impact on the Company's present or future consolidated financial statements.

# Note 3 - Inventory

As of December 31, 2023 and 2022, inventory consisted of raw materials, subassemblies to be used in the assembly of TAEUS systems, and finished goods. As of December 31, 2023, the Company had no orders pending for the sale of a TAEUS system.

As of December 31, 2023, the Company recorded inventory reserve of 5% or \$138,045.

As of December 31, 2023 and 2022, the Company had inventory valued at \$2,622,865 and \$2,644,717, respectively.

#### Note 4 - Fixed Assets

As of December 31, 2023 and 2022, fixed assets consisted of the following:

|  | Dec | cember 31,<br>2023 | December 31,<br>2022 |           |  |
|--|-----|--------------------|----------------------|-----------|--|
| Proposite level all and antitalized a form   | ¢.  |                    | ¢                    |           |  |
| Property, leasehold and capitalized software | Э   | 587,030            | Э                    | 738,720   |  |
| TAEUS development and testing                |     | 125,151            |                      | 140,617   |  |
| Accumulated depreciation                     |     | (600,399)          |                      | (643,682) |  |
| Fixed assets, net                            | \$  | 111,782            | \$                   | 235,655   |  |

Depreciation expense for the year ended December 31, 2023 and 2022 was \$123,726 and \$96,661.

# Note 5 - Accounts Payable and Accrued Liabilities

As of December 31, 2023 and 2022, current liabilities consisted of the following:

|                             | Dec | cember 31,<br>2023 | De | cember 31,<br>2022 |
|-----------------------------|-----|--------------------|----|--------------------|
| Accounts payable            | \$  | 360,401            | \$ | 613,961            |
| Accrued payroll             |     | 150,293            |    | 60,638             |
| Accrued bonuses             |     | 35,518             |    | 683,738            |
| Accrued employee benefits   |     | 5,750              |    | 5,750              |
| Insurance premium financing |     | 148,792            |    | 158,925            |
| Total                       | \$  | 700,754            | \$ | 1,523,012          |

#### Note 6 - Bank Loans

#### Toronto-Dominion Bank Loan

On April 27, 2020, the Company entered into a commitment loan with TD Bank under the Canadian Emergency Business Account, in the principal aggregate amount of CAD 40,000, due and payable upon the expiration of the initial term on December 31, 2022, which was later extended to December 31, 2023. This note bears interest on the unpaid balance at the rate of zero percent (0%) per annum during the initial term. Under this note no interest payments are due until January 1, 2024. Under the conditions of the loan, twenty-five percent (25%) of the loan will be forgiven if seventy-five percent (75%) is repaid prior to the initial term date. As of December 31, 2023 and December 31, 2022, the loan had a balance of CAD 40,000. Subsequent to the year ended December 31, 2023, the loan was repaid in full.

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#### Note 7 - Capital Stock

#### Reverse Stock Split

On December 7, 2022, the Company filed with the Secretary of State of the State of Delaware a certificate of amendment (the "Certificate of Amendment") to its certificate of incorporation, which Certificate of Amendment effectuated as of December 19, 2022 at 12:01 a.m. Eastern Time (the "Effective Time") a reverse split of the Company's common stock by a ratio of one-for-20 (the "Reverse Split"). All per share amounts and number of shares in the consolidated financial statements and related notes have been retroactively restated to reflect the Reverse Split. No fractional shares were, or shall be, issued in connection with the Reverse Split. A stockholder who would otherwise be entitled to receive a fractional share of common stock is entitled to receive the fractional share rounded up to the next whole share. The Reverse Split did not change the number of shares of common or preferred stock that the Company is authorized to issue, or the par value of the Company's common or preferred stock.

The Reverse Split resulted in a proportionate adjustment to the per share conversion or exercise price and the number of shares of common stock issuable upon the conversion or exercise of outstanding preferred stock, stock options and warrants, as well as the number of shares of common stock eligible for issuance under the Company's 2016 Omnibus Incentive Plan.

#### Capital Stock

At December 31, 2023, the authorized capital of the Company consisted of 90,000,000 shares of capital stock, comprised of 80,000,000 shares of common stock with a par value of \$0.0001 per share, and 10,000,000 shares of preferred stock with a par value of \$0.0001 per share. The Company has designated 10,000 shares of its preferred stock as Series A Convertible Preferred Stock ("Series A Preferred Stock"), 1,000 shares of its preferred stock as Series B Convertible Preferred Stock ("Series B Preferred Stock"), 100,000 shares of its preferred stock as Series C Preferred Stock, and the remainder of the 9,889,000 preferred shares remain authorized but undesignated.

As of December 31, 2023, there were 10,390,150 shares of common stock, (which exclude 202,020 unvested shares of restricted stock described in Note 8 below) 141.397 shares of Series A Preferred Stock, and no shares of Series B Preferred Stock or Series C Preferred Stock issued and outstanding, and a stock payable balance of \$5,233.

During the year ended December 31, 2023, the Company issued a total of 7,221,047 shares of its common stock, as follows:

- 4,312,500 shares of its common stock in return for aggregate net proceeds of \$4,712,750 in a registered underwritten offering that closed on May 2, 2023 (the "Offering"):
- 1,325,047 shares of its common stock in return for aggregate net proceeds of \$1,770,643 under the June 2021 ATM Agreement;
- 1,583,500 upon warrant exercises for an aggregate net proceeds of \$1,014,859.

During the year ended December 31, 2022, the Company issued a total of 1,041,377 shares of its common stock in return for aggregate net proceeds of \$8,399,512 under the June 2021 ATM Agreement (as described below).

# At-the-Market Equity Offering Program

On June 21, 2021, the Company entered into the At-The-Market Issuance Sales Agreement with Ascendiant (the "June 2021 ATM Agreement") to sell shares of common stock for aggregate gross proceeds of up to \$20.0 million, from time to time, through an "at-the-market" equity offering program under which Ascendiant acts as sales agent. As of December 31, 2023, under the June 2021 ATM Agreement the Company had issued an aggregate of 2,389,681 shares of common stock in return for net proceeds of \$10,987,263, resulting in \$341,433 of compensation paid to Ascendiant. On February 14, 2024, the Company entered into a new At-The-Market Issuance Sales Agreement with Ascendiant to sell shares of common stock for aggregate gross proceeds of up to \$6.2 million, which replaced the June 2021 ATM Agreement.

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#### Note 8 - Common Stock Options and Restricted Stock

#### Common Stock Options

Stock options are awarded to the Company's employees, consultants and non-employee members of the board of directors under the Omnibus Plan and are generally granted with an exercise price equal to the market price of the Company's common stock at the date of grant. The aggregate fair value of these stock options granted by the Company during the year ended December 31, 2023 was determined to be \$1,017,534 using the Black-Scholes-Merton option-

pricing model based on the following assumptions: (i) volatility rate of 105% to 107%, (ii) discount rate of 0%, (iii) zero expected dividend yield, (iv) risk free rate of 3.68% to 3.86%, (v) price of \$1.30 to \$4.16, and (vi) expected life of 10 years. A summary of option activity under the Company's Omnibus Plan as of December 31, 2023, and changes during the year then ended, is presented below:

|  | Number of<br>Options | Weighted<br>Average<br>Exercise<br>Price | Weighted Average Remaining Contractual Term (Years) |
|--|----------------------|--|---|
| Balance outstanding at December 31, 2022 | 391,902              | \$<br>31.47                              | 7.41  |
| Granted                                  | 274,128              | 4.02                                     | 8.84  |
| Exercised                                | -                    | -  | -   |
| Forfeited                                | -                    | -  | -   |
| Cancelled or expired                     | (41,790)             | 33.89                                    | -   |
| Balance outstanding at December 31, 2023 | 624,240              | \$<br>19.25                              | 7.26  |
| Exercisable at December 31, 2023         | 269,255              | \$<br>31.41                              | 5.34  |

#### Restricted Common Stock

On November 30, 2023, the Company issued 202,020 shares of restricted common stock (the "Restricted Stock") of the Company to PatentVest, Inc. ("PatentVest") pursuant to a Restricted Stock Agreement and Consulting Services Agreement, each with PatentVest, in exchange for certain services related to the Company's patent portfolio. The fair value of the Restricted Stock was determined to be \$200,485 using the market price of the stock on the date of the issuance. The Restricted Stock is subject to a vesting schedule pursuant to the Restricted Stock Agreement and the shares may not be sold, assigned, transferred, pledged, hypothecated, disposed of or otherwise encumbered prior to becoming vested.

#### Note 9 - Common Stock Warrants

#### Warrant Conversions

On May 2, 2023, the Company conducted the Offering in which the Company issued 2,156,250 warrants to purchase shares of common stock for an exercise price per share equal to \$1.40. The warrants expire May 2, 2028. In December 2023, the Board approved the reduction of the exercise price per share from \$1.40 to \$0.70. The Company also issued to the placement agent and its designees warrants exercisable for an aggregate of 301,875 shares of common stock for an exercise price per share equal to \$1.50. The warrants expire November 2, 2026. During the year ended December 31, 2023, the Company issued a total of 1,583,500 shares of its common stock upon warrant exercises for an aggregate net proceeds of \$1,014,859.

The following table summarizes all stock warrant activity of the Company for the year ended December 31, 2023:

|  | Number of   | Weighted<br>Average<br>Exercise<br>Price | Weighted Average Contractual |
|--|-------------|--|------------------------------|
|  | Warrants    | Price                                    | Term (Years)                 |
| Balance outstanding at December 31, 2022 | 10,330      | \$<br>25.01                              | 1.78                         |
| Granted                                  | 2,458,125   | 1.41                                     | 4.16                         |
| Exercised                                | (1,583,500) | 0.70                                     | 4.34                         |
| Forfeited                                | -           | -  | -                            |
| Expired                                  | (2,606)     | 46.95                                    | -                            |
| Balance outstanding at December 31, 2023 | 882,349     | \$<br>1.58                               | 3.79                         |
| Exercisable at December 31, 2023         | 882,349     | \$<br>1.58                               | 3.79                         |

#### **Note 10 - Related Party Transactions**

On May 2, 2023, the Company conducted the Offering in which the Company sold 83,333 shares of its common stock and 41,667 warrants to the Company's director, Anthony DiGiandomenico, for cash at the public offering price, which was less than 5% of beneficial ownership in the Company.

On October 17, 2023, the Company entered into a consulting agreement with one of its directors, Alex Tokman, pursuant to which Mr. Tokman provides commercialization services. Under the terms of the agreement, Mr. Tokman is compensated at a rate of \$150 per hour for his services.

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On November 30, 2023, the Company entered into a Restricted Stock Agreement and Consulting Services Agreement, each with PatentVest, in exchange for certain services related to the Company's patent portfolio. PatentVest is a wholly-owned subsidiary of MDB Capital Holdings, LLC ("MDB"). Anthony DiGiandomenico, a member of the Company's board of directors, is the Chief of Transactions and a director of MDB. Lou Basenese, a member of our board of directors, is President and Chief Market Strategist at Public Ventures LLC, a wholly-owned subsidiary of MDB.

#### Note 11 - Commitments and Contingencies

# Office Lease

Effective January 1, 2015, the Company entered into an office lease agreement with Green Court, LLC, a Michigan limited liability company, for approximately 3,657 rentable square feet of space, for the initial monthly rent of \$5,986, which commenced on January 1, 2015 for an initial term of 60 months. On October 10, 2017 this lease was amended increasing the rentable square feet of space to 3,950 and the monthly rent to \$7,798.

On March 15, 2021, the Company entered into an amendment to the lease, adding approximately 3,248 rentable square feet, increasing the initial monthly rent to \$15,452 effective May 2021, and extending the term of the lease to December 31, 2025.

The Company records the lease asset and lease liability at the present value of lease payments over the lease term. The lease typically does not provide an implicit rate; therefore, the Company uses its estimated incremental borrowing rate at the time of lease commencement to discount the present value of lease payments. The Company's discount rate for operating leases at December 31, 2023 was 10%. Lease expense is recognized on a straight-line basis over the lease term to the extent that collection is considered probable. As a result, the Company has been recognizing rents as they become payable based on the adoption of ASC Topic 842. The weighted-average remaining lease term is 2.0 years.

As of December 31, 2023, the maturities of operating lease liabilities are as follows:

|  | Op | erating   |
|--|----|-----------|
|  | I  | Lease     |
| 2024   |    | 202,624   |
| 2025 and beyond                                |    | 202,624   |
| Total  | \$ | 405,247   |
| Less: amount representing interest             |    | (39,328)  |
| Present value of future minimum lease payments |    | 365,919   |
| Less: current obligations under leases         |    | (173,857) |
| Long-term lease obligations                    | \$ | 192,062   |

For the year ended December 31, 2023 and 2022, the Company incurred rent expenses of \$218,815 and \$213,912, respectively.

#### **Employment and Consulting Agreements**

Francois Michelon - The Company has an employment agreement with Francois Michelon, the Company's Chief Executive Officer and Chairman of the board of directors, dated May 12, 2017, as amended on December 27, 2019. Effective January 1, 2022, the Compensation Committee increased Mr. Michelon's annual salary to \$423,000. In September 2023, Mr. Michelon agreed to a 30% reduction of his base salary received for the remainder of 2023 in order to preserve cash for the Company's operations. Mr. Michelon is also eligible for an annual cash bonus based upon achievement of performance-based objectives established by the Board of Directors. Under the employment agreement, Mr. Michelon is eligible for an annual cash bonus based upon achievement of performance-based objectives established by the board of directors. Upon termination without cause, any portion of Mr. Michelon's option award scheduled to vest within 12 months will automatically vest, and upon termination without cause within 12 months following a change of control, the entire unvested portion of the option award will automatically vest. Upon termination for any other reason, the entire unvested portion of the option award will terminate.

If Mr. Michelon's employment is terminated by the Company without cause or Mr. Michelon terminates his employment for good reason, Mr. Michelon will be entitled to receive 12 months' continuation of his current base salary and a lump sum payment equal to 12 months of continued healthcare coverage (or 24 months' continuation of his current base salary and a lump sum payment equal to 24 months of continued healthcare coverage if such termination occurs within one year following a change in control).

Under his employment agreement, Mr. Michelon is eligible to receive benefits that are substantially similar to those of the Company's other senior executive officers.

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Michael Thornton - The Company has an employment agreement with Michael Thornton, the Company's Chief Technology Officer, dated May 12, 2017, as amended December 27, 2019. The employment agreement provides for an annual base salary that is subject to adjustment at the board of directors' discretion. Effective January 1, 2022, the Compensation Committee increased Mr. Thornton's annual salary to \$324,000. In September 2023, Mr. Thorton agreed to a 30% reduction of his base salary received for the remainder of 2023 in order to preserve cash for the Company's operations. Under the employment agreement, Mr. Thornton is eligible for an annual cash bonus based upon achievement of performance-based objectives established by the board of directors. Upon termination without cause, any portion of Mr. Thornton's option award scheduled to vest within 12 months will automatically vest, and upon termination without cause within 12 months following a change of control, the entire unvested portion of the option award will automatically vest. Upon termination for any other reason, the entire unvested portion of the option award will terminate.

If Mr. Thornton's employment is terminated by the Company without cause or Mr. Thornton terminates his employment for good reason, Mr. Thornton will be entitled to receive 12 months' continuation of his current base salary and a lump sum payment equal to 12 months of continued healthcare coverage (or 24 months' continuation of his current base salary and a lump sum payment equal to 24 months of continued healthcare coverage if such termination occurs within one year following a change in control).

Under his employment agreement, Mr. Thornton is eligible to receive benefits that are substantially similar to those of the Company's other senior executive officers.

# Litigation

From time to time the Company may become a party to litigation in the normal course of business. As of December 31, 2023, there were no legal matters that management believes would have a material effect on the Company's financial position or results of operations.

### Note 12 - Income Taxes

The components of earnings before income taxes for the years ended December 31, 2023 and 2022 were as follows:

For the Years Ended December 31,

| ncome (loss) before income taxes 2023                  |                 |
|--|-----------------|
| Domestic (8,403,400)                                   | (11,548,400)    |
| Foreign (1,593,300)                                    | (1,630,700)     |
| Total income (loss) before income taxes \$ (9,996,700) | \$ (13,179,100) |

Income tax provision (benefit) consists of the following for the years ended December 31, 2023 and 2022:

| Income tax provision (benefit):      | For the Years Ended<br>December 31, |      |  |  |  |  |  |  |
|--------------------------------------|-------------------------------------|------|--|--|--|--|--|--|
| <u>Current</u>                       | 2023                                | 2022 |  |  |  |  |  |  |
| Federal                              |                                     | _    |  |  |  |  |  |  |
| State                                | -                                   | -    |  |  |  |  |  |  |
| Foreign                              | -                                   | -    |  |  |  |  |  |  |
| Total Current                        | -                                   | -    |  |  |  |  |  |  |
| Deferred                             |                                     |      |  |  |  |  |  |  |
| Federal                              | -                                   | -    |  |  |  |  |  |  |
| State                                | -                                   | -    |  |  |  |  |  |  |
| Foreign                              | -                                   | -    |  |  |  |  |  |  |
| Total Deferred                       | -                                   |      |  |  |  |  |  |  |
|                                      |                                     |      |  |  |  |  |  |  |
| Total income tax provision (benefit) | <u>\$</u>                           | \$ - |  |  |  |  |  |  |

A reconciliation of the income tax provision (benefit) by applying the statutory United States federal income tax rate to income (loss) before income taxes is as follows:

| Rate Reconciliation                           | Fo                | or the Years Ended<br>December 31, | l              |      |
|---|-------------------|------------------------------------|----------------|------|
|   | <br>2023          |                                    | 2022           |      |
| Expected tax at statutory rates               | \$<br>(2,099,400) | 21%                                | \$ (2,767,700) | 21%  |
| Permanent Differences                         | \$<br>(83,000)    | 1%                                 | 3,000          | 0%   |
| State Income Tax, Net of Federal benefit      | \$<br>(448,100)   | 4%                                 | (589,200)      | 4%   |
| State Rate Change-Federal Impact              | \$<br>-           | 0%                                 | 53,200         | 0%   |
| State Rate Change Adjustment                  | \$<br>-           | 0%                                 | (253,200)      | 2%   |
| Foreign taxes at rate different than US Taxes | \$<br>(33,800)    | 0%                                 | (35,800)       | 0%   |
| Current Year Change in Valuation Allowance    | \$<br>2,630,700   | -26%                               | 5,134,200      | -39% |
| Prior Year True-Ups                           | \$<br>33,600      | 0%                                 | (1,544,500)    | 12%  |
| Income tax provision (benefit)                | \$<br>-           | 0%                                 | \$ -           | 0%   |

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Deferred tax assets and liabilities are provided for significant income and expense items recognized in different years for tax and financial reporting purposes. Temporary differences, which give rise to a net deferred tax asset is as follows:

For the Vears Ended

|   |    | ror the re   | ars Ended    |
|---|----|--------------|--------------|
| <u>Deferred Tax Assets/(Liabilities) Detail</u> |    | Decem        | ber 31,      |
|   |    | 2023         | 2022         |
| Deferred Tax Assets (Liabilities):              | _  |              |              |
| Stock Based Compensation                        | \$ | 1,406,400    | 1,145,700    |
| Accrued Bonus                                   | \$ | 63,300       | 13,100       |
| Depreciation                                    | \$ | (7,800)      | (12,500)     |
| ROU (Asset)                                     | \$ | (92,600)     | (132,300)    |
| ROU Liability                                   | \$ | 95,700       | 135,500      |
| Capitalized R&D                                 | \$ | 1,960,100    | 1,314,202    |
| R&D Credit                                      | \$ | 29,800       | 29,800       |
| Net Operating Losses (US)                       | \$ | 16,665,000   | 15,364,200   |
| Net Operating Losses (Foreign)                  | \$ | 1,042,600    | 674,100      |
| Net deferred tax assets (liabilities)           |    | 21,162,500   | 18,531,802   |
| Valuation allowance                             |    | (21,162,500) | (18,531,802) |
| Net deferred tax assets (liabilities)           | \$ |              | \$ -         |

The domestic U.S. net operating loss carryforward increased from \$57,008,606 at December 31, 2022 to \$62,033,535 at December 31, 2023. After consideration of all the evidence, both positive and negative, management has recorded a full valuation allowance at December 31, 2023 and 2022, due to the uncertainty of realizing the deferred income tax assets. Out of the \$62,033,535 net operating losses carry forward, \$16,012,698 will begin to expire in 2028 and \$45,990,837 will have an indefinite life. The Company's Total State net operating losses also increased from \$67,608,270 at December 31, 2022 to \$72,889,103 at December 31, 2023. The State net operating losses will began to expire in 2028. There are also net operating losses from Canada, France, Germany, Netherlands and UK total to 4,425,038 as of December 31, 2023.

The Internal Revenue Code includes a provision, referred to as Global Intangible Low-Taxed Income ("GILTI"), which provides for a 10.5% tax on certain income of controlled foreign corporations. We have elected to account for GILTI as a period cost if and when occurred, rather than recognizing deferred taxes for basis differences expected to reverse.

The Company is subject to taxation in the U.S. and various states and foreign jurisdictions. U.S. federal income tax returns for 2020 and after remain open to examination. We and our subsidiaries are also subject to income tax in multiple states and foreign jurisdictions. Generally, foreign income tax returns after 2020 remain open to examination. No income tax returns are currently under examination. As of December 31, 2023 and 2022, the Company does not have any unrecognized tax benefits, and continues to monitor its current and prior tax positions for any changes. The Company recognizes penalties and interest related to unrecognized tax benefits as income tax expense. For the years ended December 31, 2023 and 2022, there were no penalties or interest recorded in income tax expense.

#### **Note 13 - Subsequent Events**

Subsequent to the year ended December 31, 2023, the Company issued a total of 118,904 shares of its common stock upon warrant exercises for an aggregate net proceeds of \$77,407.

Subsequent to the year ended December 31, 2023, the Company issued a total of 316,963 shares of its common stock in return for aggregate net proceeds of \$419,977 under the June 2021 ATM Agreement.

Subsequent to the year ended December 31, 2023, the Toronto-Dominion Bank Loan was repaid in full (see note 6).

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#### 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

As of the end of the period covered by this report, management performed, with the participation of our principal executive and principal financial officer, an evaluation of the effectiveness of our disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act. Our disclosure controls and procedures are designed to ensure that information required to be disclosed in the reports we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC's forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, to allow timely decisions regarding required disclosures. Based on the evaluation, our principal executive and principal financial officer concluded that, as of December 31, 2023, our disclosure controls and procedures were not effective due to a material weakness in internal control over financial reporting, as described below.

### Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining effective internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act. Internal control over financial reporting is a process designed to provide reasonable assurance to the Company's management and board of directors regarding the reliability of our financial reporting for external purposes in accordance with accounting principles generally accepted in the United States of America.

Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our consolidated financial statements would be prevented or detected. 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. Therefore, even those systems determined to be effective can only provide reasonable assurance with respect to financial statement preparation and presentation.

Management conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis. Management identified the following material weakness as of December 31, 2023: insufficient personnel resources within the accounting function to segregate the duties over financial transaction processing and reporting. Because of this material weakness, management concluded that the Company's internal control over financial reporting was not effective as of December 31, 2023.

## Continuing Remediation Efforts

To remediate its internal control weakness, management intends to implement the following measures, as the Company's resources and financial means allow:

- Add additional accounting personnel or outside consultants, such as a new controller, to properly segregate duties and to effect timely, accurate preparation of the financial statements; and
- Complete the development of and maintain adequate written accounting policies and procedures.

As we are not an "accelerated filer" under SEC rules, we are not required to provide an auditor's attestation of management's assessment of internal control over financial reporting as of December 31, 2023.

# Changes in Internal Control of Financial Reporting

During the quarter ended December 31, 2023, except as described above under "Continuing Remediation Efforts," there were no changes that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### Item 9B. Other Information.

Not applicable.

#### Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

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#### PART III

# Item 10. Directors, Executive Officers and Corporate Governance.

The following table sets forth the names and ages of all of our executive officers and directors. Our officers are appointed by, and serve at the pleasure of, the board of directors.

| Name                   | Age | Position                             |
|------------------------|-----|--------------------------------------|
| Francois Michelon      | 58  | Chief Executive Officer and Chairman |
| Michael Thornton       | 55  | Chief Technology Officer             |
| Irina Pestrikova       | 38  | Senior Director, Finance             |
| Louis J. Basenese      | 46  | Director                             |
| Anthony DiGiandomenico | 57  | Director                             |
| Michael Harsh          | 69  | Director                             |
| Alexander Tokman       | 62  | Director                             |

Biographical information with respect to our executive officers and directors is provided below. There are no family relationships between any of our executive officers or directors.

**Francois Michelon** joined ENDRA as Chief Executive Officer and Chairman of our board of directors in 2015. He has over 20 years of healthcare technology experience in general management, operations, strategy and marketing across the diagnostic imaging, surgical instrument and dental sectors.

From 2012 to 2014, Mr. Michelon served as Vice President of Global Marketing for the 3i division of Biomet, Inc. (now Zimmer Biomet Holdings, Inc.), a provider of oral reconstruction technologies, where he was responsible for the upstream and downstream development of the division's global portfolio. From 2004 to 2011, Mr. Michelon served as Group Director of Global Services and Visualization for Smith & Nephew plc's Advanced Surgical Devices division, where he led in the B2B service and capital equipment sectors and had responsibility over the financial performance of these as well. From 1997 to 2004, Mr. Michelon worked at GE Healthcare in a variety of global upstream and downstream marketing roles.

Mr. Michelon received an MBA from Carnegie-Mellon University and a BA in Economics from the University of Chicago. He has also earned his Six Sigma Black Belt certification.

Mr. Michelon's extensive industry and executive experience and his intimate understanding of our business as our Chief Executive Officer position him well to serve as a member of our Board of Directors.

**Michael Thornton** joined ENDRA as Chief Operating Officer in 2007 and became our Chief Technology Officer in 2008 and has served in that role since. Prior to that, Mr. Thornton was a founder and President of Enhanced Vision Systems Corp., or EVS, a developer and supplier of medical imaging equipment to the pharmaceutical, biotech, and academic sectors.

In 2002, EVS was acquired by General Electric Company and was integrated into the Functional and Molecular Imaging business unit of GE Medical Systems (now GE Healthcare, a subsidiary of General Electric Company). Following the acquisition of EVS by GE Medical Systems, Mr. Thornton held a number of positions at GE Healthcare, including Sales Manager, Global Product Manager, and Site Leader. He was a member of the leadership team that expanded the pre-clinical imaging business to include: computed tomography, optical, and positron emission tomography imaging technologies, with global market reach. He is also a founder of Volumetrics Medical Corp., a developer and manufacturer of quality assurance devices for diagnostic imaging.

Prior to founding EVS, Mr. Thornton developed medical imaging related technologies at the Robarts Research Institute (London, Ontario, Canada) for which he obtained an MSc in Electrical Engineering from the University of Western Ontario. Mr. Thornton also holds a BASc in Electrical Engineering from the University of Toronto and is a member of the American Association of Physicists in Medicine.

Irina Pestrikova joined ENDRA as Senior Director, Finance in June 2021. From 2014 to 2021, Ms. Pestrikova was the Director of Operations of Wells Compliance Group. Wells Compliance Group is a technology-based services firm supporting the financial reporting needs of publicly traded companies and privately held firms whose investor or shareholder base requires timely GAAP-compliant financial reporting. In her role as Director of Operations, Ms. Pestrikova provided accounting and bookkeeping services to a number of public companies, including ENDRA. Ms. Pestrikova has also been the Director of Finance & Operations of Atlas Bookkeeping, Inc., a provider of financial reporting, modeling and analysis, since 2020. She holds an MBA in Finance from Pepperdine University.

**Louis J. Basenese**, joined our Board of Directors in April 2020. Mr. Basenese is the President, Chief Market Strategist at Public Ventures, LLC, a registered broker-dealer, Member FINRA/SIPC. Previously, he was Founder and Chief Analyst of Disruptive Tech Research, LLC, an independent equity research and advisory firm focused exclusively on disruptive technology companies that has served the investment management community from June 2014 through September 2022. Since 2005, Mr. Basenese has also managed The Basenese Group, LLC, a consulting business focused on communications and business development for private and public small and microcap businesses.

Mr. Basenese holds an M.B.A. in Finance from the Crummer Graduate School of Business at Rollins College and a Bachelor of Arts from the University of Florida. He is also a former Series 7 and Series 66 license holder.

Mr. Basenese's experience with investor relations and business development of technology-focused companies, as well as financing and strategic planning, provides him with the qualifications and skills necessary to serve as a member of our Board of Directors.

Anthony DiGiandomenico joined our Board of Directors in 2013. A co-founder of MDB Capital Group LLC, Mr. DiGiandomenico focuses on corporate finance and capital formation for growth-oriented companies. He has participated in all areas of corporate finance including private capital, public offerings, PIPEs, business consulting and strategic planning, and mergers and acquisitions.

Mr. DiGiandomenico has also worked on a wide range of transactions for growth-oriented companies in biotechnology, nutritional supplements, manufacturing and entertainment industries. Prior to forming MDB Capital Group LLC in 1997, Mr. DiGiandomenico served as President and CEO of the Digian Company, a real estate development company. Mr. DiGiandomenico has also served on the board of directors of Cue Biopharma, Inc., an immunotherapy company, and on the board of directors of Provention Bio, Inc., a clinical-stage biopharmaceutical company.

Mr. DiGiandomenico holds an MBA from the Haas School of Business at the University of California, Berkeley and a BS in Finance from the University of Colorado.

Mr. DiGiandomenico's financial expertise, general business acumen and significant executive leadership experience position him well to make valuable contributions to our Board of Directors.

Michael Harsh joined our Board of Directors in 2015. He is a Portfolio Executive for the National Institutes of Health (NIH) Rapid Acceleration of Diagnostics (RADx) COVID-19 Response Program and a co-founder and Chief Product Officer of Terapede Systems, a digital Xray startup that focuses on developing an ultra-high resolution medical flat panel X-ray detector. He co-founded Terapede in 2015. Prior to Terapede, Mr. Harsh had a 36-year career with General Electric ("GE"). He held numerous positions within GE and served as Vice President and Chief Technology Officer of GE Healthcare, a multi-billion dollar division of GE, where he led its global science and technology organization and research and development teams in diagnostics, healthcare IT and life sciences. In 2004, Mr. Harsh was named Global Technology Leader - Imaging Technologies at the GE Global Research Center, where he led the research for imaging technologies across the company as well as the research associated with computer visualization and superconducting systems.

Additionally, Mr. Harsh is a member of the boards of directors of Magnetic Insights, Imagion Biosystems (ASX: IBX.AX), and EmOpti, Inc., as well as a member of the Radiological Society of North America (RSNA), Research & Education Foundation Board of Trustees. He had previously served as a director for Compute Health Acquisition Corp. until its merger with Allurion Technologies and as a director for FloDesign Sonics until its acquisition by MilliporeSigma, a division of the Merck Group. He is also a McKinsey Senior Advisor and a consultant in the medical device industry.

Mr. Harsh is a graduate of Marquette University, where he earned a bachelor's degree in Electrical Engineering. He holds numerous U.S. patents in the field of medical imaging and instrumentation. In 2008, Mr. Harsh was elected to the American Institute for Medical and Biological Engineering College of Fellows for his significant contributions to the medical and biological engineering field.

Mr. Harsh's extensive industry, executive and board experience position him well to serve on our Board of Directors.

Alexander Tokman joined our Board of Directors in 2008. He currently serves as a President of iUNU, a privately held AI/Computer Vision SaaS company and recently was a CEO-in-Residence at the Allen Institute for Artificial Intelligence (AI2), from 2019 to 2020. Mr. Tokman also serves as an independent board director for Izotropic Corporation (CSE: IZO), a company commercializing a dedicated breast CT imaging platform, and on the board of the American Academy of Thermography, a non-profit organization focused on bringing novel infrared imaging applications for disease diagnosis.

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Mr. Tokman served as President, Chief Executive Officer, and a director of Microvision, Inc., a publicly traded laser beam scanning display and imaging company, from January 2006 to December 2017.

Previously, Mr. Tokman completed a 10+ year tenure as an executive with GE Healthcare, where he led several global businesses, the latest being its Global Molecular Imaging and Radiopharmacy multi-technology business unit, of which he was General Manager from 2003 to 2005.

Between 1995 and 2003, Mr. Tokman served in various leadership roles at GE Healthcare, where he led the definition and successful commercialization of several product segments, including PET/CT.

Mr. Tokman is a certified Six Sigma and Design for Six Sigma (DFSS) Black Belt and Master Black Belt and as one of General Electric Company's Six Sigma pioneers, he drove the quality culture change across GE Healthcare in the late 1990s. From 1989 to 1995, Mr. Tokman served as development programs lead and a head of Industry and Regional Development at Tracor Applied Sciences (BAE Systems). Mr. Tokman has both an MS and BS in Electrical Engineering from the University of Massachusetts, Dartmouth.

Mr. Tokman's industry expertise and significant executive leadership and director experience position him well to make valuable contributions to our Board of Directors.

#### **Board Independence**

The Board of Directors has determined that each of Mr. Basenese, Mr. DiGiandomenico, Mr. Harsh and Mr. Tokman is an independent director within the meaning of the director independence standards of The Nasdaq Stock Market ("Nasdaq"). Furthermore, the Board has determined that all of the members of the Audit Committee, Compensation Committee and Corporate Governance and Nominating Committee are independent within the meaning of the director independence standards of Nasdaq and the rules of the SEC applicable to each such committee.

#### **Committees**

Audit Committee. Our Audit Committee consists of Mr. Basenese, Mr. DiGiandomenico, and Mr. Harsh. The Board of Directors has determined that each member of the Audit Committee is independent within the meaning of the Nasdaq director independence standards and applicable rules of the SEC for audit committee members. The Board of Directors has elected Mr. DiGiandomenico as Chairperson of the Audit Committee and has determined that he qualifies as an "audit committee financial expert" under the rules of the SEC. The Audit Committee is responsible for assisting the Board of Directors in fulfilling its oversight responsibilities with respect to financial reports and other financial information. The Audit Committee (1) reviews, monitors and reports to the Board of Directors on the adequacy of the Company's financial reporting process and system of internal controls over financial reporting, (2) has the ultimate authority to select, evaluate and replace the independent auditor and is the ultimate authority to which the independent auditors are accountable, (3) in consultation with management, periodically reviews the adequacy of the Company's disclosure controls and procedures and approves any significant changes thereto, (4) provides the audit committee report for inclusion in our proxy statement for our annual meeting of stockholders and (5) recommends, establishes and monitors procedures for the receipt, retention and treatment of complaints relating to accounting, internal accounting controls or auditing matters and the receipt of confidential, anonymous submissions by employees of concerns regarding questionable accounting or auditing matters. The Audit Committee met twice in 2023 as well as acted by written consent.

Compensation Committee. Our Compensation Committee presently consists of Mr. Basenese, Mr. DiGiandomenico, Mr. Harsh and Mr. Tokman, each of whom is a non-employee director as defined in Rule 16b-3 of the Exchange Act. The Board has also determined that each member of the Compensation Committee is also an independent director within the meaning of Nasdaq's director independence standards. Mr. Tokman serves as Chairperson of the Compensation Committee. The Compensation Committee (1) discharges the responsibilities of the Board of Directors relating to the compensation of our directors and executive officers, (2) oversees the Company's procedures for consideration and determination of executive and director compensation, and reviews and approves all executive compensation, and (3) administers and implements the Company's incentive compensation plans and equity-based plans. The Compensation Committee [did not meet separately from the board of directors in 2023] but acted by unanimous written consent.

Corporate Governance and Nominating Committee. Our Corporate Governance and Nominating Committee consists of Mr. Harsh and Mr. Tokman. The Board of Directors has determined that each member of the Corporate Governance and Nominating Committee is an independent director within the meaning of the Nasdaq director independence standards and applicable rules of the SEC. Mr. Harsh serves as Chairperson of the Corporate Governance and Nominating Committee (1) recommends to the Board of Directors persons to serve as members of the Board of Directors and as members of and chairpersons for the committees of the Board of Directors, (2) considers the recommendation of candidates to serve as directors submitted from the stockholders of the Company, (3) assists the Board of Directors in evaluating the performance of the Board of Directors and the Board committees, (4) advises the Board of Directors regarding the appropriate board leadership structure for the Company, (5) reviews and makes recommendations to the Board of Directors on corporate governance and (6) reviews the size and composition of the Board of Directors and recommends to the Board of Directors any changes it deems advisable. The Corporate Governance and Nominating Committee did not meet separately from the Board of Directors in 2023 but acted by written consent.

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# **Delinquent Section 16(a) Reports**

Section 16(a) of the Exchange Act requires our directors, executive officers and persons who own more than ten percent of a registered class of our equity securities to file reports of ownership and changes in ownership with the SEC. Such persons are required by SEC regulations to furnish us with copies of all such filings. Based solely on our review of the copies of the reports that we received and written representations that no other reports were required, we believe that our executive officers, directors and greater than 10% stockholders complied with all applicable filing requirements on a timely basis during 2023.

#### **Code of Business Conduct and Ethics**

We have in place a Code of Business Conduct and Ethics (the "Code of Ethics") that applies to all of our directors, officers and employees. The Code of Ethics is designed to deter wrongdoing and to promote:

- · honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;
- · full, fair, accurate, timely and understandable disclosure in reports and documents that we file with, or submit to, the SEC and in other public communications that we make;
- · compliance with applicable governmental laws, rules and regulations;
- the prompt internal reporting of violations of the Code of Ethics to an appropriate person identified in the Code of Ethics; and
- · accountability for adherence to the Code of Ethics.

A current copy of the Code of Ethics is available at www.endrainc.com. A copy may also be obtained, free of charge, from us upon a request directed to ENDRA Life Sciences, Inc., 3600 Green Court, Suite 350, Ann Arbor, Michigan 48105, attention: Investor Relations. We intend to disclose any amendments to or waivers of a provision of the Code of Ethics required to be disclosed by applicable SEC rules by posting such information on our website available at www.endrainc.com and/or in our public filings with the SEC.

#### Nasdaq Rule 5608 Clawback Policy

The Company has adopted an incentive-based compensation recovery policy as required by the rules of the Nasdaq Stock Market, which is filed as Exhibit 97 to this report.

#### **Item 11. Executive Compensation**

Our compensation philosophy is to offer our executive officers compensation and benefits that are competitive and meet our goals of attracting, retaining and motivating highly skilled management, which is necessary to achieve our financial and strategic objectives and create long-term value for our stockholders. We believe the levels of compensation we provide should be competitive, reasonable and appropriate for our business needs and circumstances. Our board of directors uses benchmark compensation studies in determining compensation elements and levels. The principal elements of our executive compensation program have to date included base salary, annual bonus opportunity and long-term equity compensation in the form of stock options. We believe successful long-term Company performance is more critical to enhancing stockholder value than short-term results. For this reason and to conserve cash and better align the interests of management and our stockholders, we emphasize long-term performance-based equity compensation over base annual salaries.

The following table sets forth information concerning the compensation earned by the individual that served as our principal executive officer during 2023 and our two most highly compensated executive officers other than the individual who served as our principal executive officer during 2023 (collectively, the "named executive officers"):

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#### 2023 Summary Compensation Table

|                                  |          |             |                 | Non-equity     |                      |            |
|----------------------------------|----------|-------------|-----------------|----------------|----------------------|------------|
| Name and                         |          |             | 0 4             | Incentive Plan | All Other            |            |
| Principal<br>Position            | Year     | Solomy (C)  | Option          | Compensation   | Compensation (\$)(2) | Total (C)  |
| r osition                        | <u> </u> | Salary (\$) | Awards (\$) (1) | (\$)           | (\$)(2)              | Total (\$) |
| Francois Michelon <sup>(3)</sup> | 2023     | 387,859     | 258,341         | -              | 587                  | 646,787    |
| Chief Executive Officer          | 2022     | 423,000     | 212,609         | -              | 587                  | 636,196    |
| Michael Thornton <sup>(3)</sup>  | 2023     | 278,851     | 252,734         | -              | 392                  | 531,977    |
| Chief Technology Officer         | 2022     | 301,278     | 208,128         | -              | 392                  | 509,798    |
| Irina Pestrikova                 | 2023     | 185,000     | 29,724          | -              | -                    | 214,724    |
| Senior Director, Finance         | 2022     | 174,952     | 12,373          |                | <u>-</u> _           | 187,325    |

<sup>(1)</sup> The amounts shown in this column indicate the grant date fair value of option awards granted in the subject year computed in accordance with FASB ASC Topic 718. For additional information regarding the assumptions made in calculating these amounts, see notes 2 and 8 to the financial statements included in Part II, Item 8 of this Annual Report. The shares underlying these option awards vest and become exercisable in three equal annual installments beginning on the first anniversary of their respective grant dates.

- (2) Represents insurance premiums paid by the Company with respect to life insurance for the benefit of the named executive officer.
- (3)In consideration of the Company's limited resources, in September 2023, Mr. Michelon and Mr. Thornton each agreed to a 30% reduction in each of their base salaries received for the remainder of 2023 in order to preserve cash for the Company's operations.

# **Employment Agreements and Change of Control Arrangements**

The following is a summary of the employment arrangements with our named executive officers.

Francois Michelon. Effective May 12, 2017, the Company entered into an amended and restated employment agreement with Francois Michelon, our Chief Executive Officer and Chairman of the Board of Directors, which agreement was amended on December 27, 2019. Mr. Michelon's employment with the Company is "at will" and may be terminated by him or the Company at any time and for any reason. Pursuant to the employment agreement, Mr. Michelon receives an annual base salary that is subject to adjustment at the Board of Directors' discretion. Effective January 1, 2022, the Compensation Committee increased Mr. Michelon's annual salary to \$423,000. In September 2023, Mr. Michelon agreed to a 30% reduction of his base salary received for the remainder of 2023 in order to preserve cash for the Company's operations. Mr. Michelon is also eligible for an annual cash bonus based upon the achievement of performance-based objectives established by the Board of Directors.

If Mr. Michelon's employment is terminated by the Company without cause (as defined in the 2016 Plan) or if Mr. Michelon resigns for good reason (as defined in the employment agreement), Mr. Michelon will be entitled to receive, subject to his execution of a standard release agreement, 12 months' continuation of his current base salary and a lump sum payment equal to 12 months of continued healthcare coverage (or 24 months' continuation of his current base salary and a lump sum payment equal to 24 months of continued healthcare coverage if such termination occurs within one year following a change in control).

Under his employment agreement, Mr. Michelon is eligible to receive benefits that are substantially similar to those of the Company's other senior executive officers.

*Michael Thornton*. Effective May 12, 2017, the Company entered into an amended and restated employment agreement with Michael Thornton, our Chief Technology Officer, which agreement was amended on December 27, 2019. The employment agreement provides that Mr. Thornton's employment with the Company is "at will" and may be terminated by him or the Company at any time and for any reason. Pursuant to the employment agreement, Mr. Thornton receives an annual base salary that is subject to adjustment at the Board of Directors' discretion. Effective January 1, 2022, the Compensation Committee increased Mr. Thornton's annual salary to \$324,000. In September 2023, Mr. Thornton agreed to a 30% reduction of his base salary received for the remainder of 2023 in order to preserve cash for the Company's operations.

If Mr. Thornton's employment is terminated by the Company without cause (as defined in the 2016 Plan) or if Mr. Thornton resigns for good reason (as defined in the employment agreement), Mr. Thornton will be entitled to receive, subject to his execution of a standard release agreement, 12 months' continuation of his current base salary and a lump sum payment equal to 12 months of continued healthcare coverage (or 24 months' continuation of his current base salary and a lump sum payment equal to 24 months of continued healthcare coverage if such termination occurs within one year following a change in control).

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Under his employment agreement, Mr. Thornton is eligible to receive benefits that are substantially similar to those of the Company's other senior executive officers.

*Irina Pestrikova*. Ms. Pestrikova is employed by the Company pursuant to an Offer Letter by and between the Company and Ms. Pestrikova, dated as of June 9, 2021. Ms. Pestrikova's employment is "at will" and may be terminated by the Company at any time and for any reason. Effective as of December 31, 2023, Ms. Pestrikova's annual salary was set by the Board at \$185,000. Per the terms of her offer letter, Ms. Pestrikova is eligible to receive employee benefits plans including medical, dental, vision, and 401(k) plans.

Additionally, our named executive officers are eligible to participate in our health and welfare programs and 401(k) plan, and other benefit programs on the same basis as other employees.

**Option Awards** 

#### **Outstanding Equity Awards at 2023 Fiscal Year End**

The following table provides information regarding equity awards held by the named executive officers as of December 31, 2023.

|                          |             | Option Awa    | arus       |            |
|--------------------------|-------------|---------------|------------|------------|
|                          | Number of   | Number of     |            |            |
|                          | Securities  | Securities    |            |            |
|                          | Underlying  | Underlying    |            |            |
|                          | Unexercised | Unexercised   | Option     | Option     |
|                          | Options (#) | Options (#)   | Exercise   | Expiration |
|                          | Exercisable | Unexercisable | Price (\$) | Date       |
| François Michelon        | 15,366      | CHEACTEISABIC | 100.00     | 5/12/25    |
|                          | ,           | -             |            |            |
| Chief Executive Officer  | 1,598       | -             | 91.00      | 5/12/25    |
|                          | 6,250       | -             | 45.00      | 12/13/26   |
|                          | 30,600      | -             | 18.00      | 12/11/29   |
|                          | 1,667       | 833(1)        | 52.80      | 4/5/31     |
|                          | -           | 15,000(2)     | 52.80      | 4/5/31     |
|                          | 11,886      | 23,771(3)     | 7.60       | 3/28/32    |
|                          | -           | 69,531(4)     | 4.02       | 1/30/33    |
| Michael Thornton         | 1,598       | -             | 91.00      | 5/12/25    |
| Chief Technology Officer | 15,667      | -             | 100.00     | 5/12/25    |
|                          | 6,250       | -             | 45.00      | 12/13/26   |
|                          | 28,796      | -             | 18.00      | 12/11/29   |
|                          | 1,667       | 833(1)        | 52.80      | 4/5/31     |
|                          | -           | 15,000(2)     | 52.80      | 4/5/31     |
|                          | 11,635      | 23,271(3)     | 7.60       | 3/28/32    |
|                          | <u>-</u>    | 68,022(4)     | 4.02       | 1/30/33    |
| Irina Pestrikova         | 133         | 67(5)         | 44.60      | 2/5/31     |
| Senior Director, Finance | 2,500       | 1,250(6)      | 42.20      | 6/18/31    |
|                          | 200         | -             | 14.00      | 10/27/30   |
|                          | 692         | 1,383(3)      | 7.60       | 3/28/32    |
|                          | -           | 8,000(4)      | 4.02       | 1/30/33    |

- (1) Represents unvested portion of stock option award which vests in three equal annual installments beginning on April 5, 2022.
- Represents unvested portion of stock option award which vests as follows: (i) 25% vests upon the Company's earning \$5 million or more of revenue with a gross margin of 10% or greater, (ii) 25% vests upon the Company's earning \$10 million or more of revenue with a gross margin of 35% or greater, (iii) 25% vests upon the Company's earning \$15 million or more of revenue with a gross margin of 40% or greater, and (iv) 25% vests upon the Company's earning \$20 million or more of revenue with a gross margin of 50% or greater.
- (3) Represents unvested portion of stock option award which vests in three equal annual installments beginning on March 28, 2023.
- (4) Represents unvested portion of stock option award which vests in three equal annual installments beginning on January 30, 2024.
- (5) Represents unvested portion of stock option award which vests in three equal annual installments beginning on February 5, 2022.
- (6) Represents unvested portion of stock option award which vests in three equal annual installments beginning on June 18, 2022.

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# **Equity Compensation Plan Table**

The following table presents information on the Company's equity compensation plans as of December 31, 2023. All outstanding awards relate to our common stock.

|  | Exercise of<br>Outstanding             | Outstanding Options,<br>Warrants and Rights | for Future Issuance<br>under Equity                          |
|--|--|---|--|
|  | Options, Warrants<br>and Rights<br>(a) | (b)   | Compensation Plans (Excluding Securities Reflected in Column |
|  |  |   | (a))<br>(c)  |
| Equity compensation plans approved by security holders     | 624,240(1)                             | \$ 19.25                                    | 663,633(2)   |
| Equity compensation plans not approved by security holders | -                                      | -   | -  |
| Total  | 624,240                                | \$ 19.25                                    | 663,633  |

<sup>(1)</sup> Consists of outstanding stock options exercisable for shares of common stock issued under the 2016 Plan.

## **Director Compensation**

Effective January 30, 2023, the Company adopted a non-employee director compensation policy (the "Compensation Policy") pursuant to which each of our non-employee directors receives, upon his or her initial election to the Board of Directors, a stock option exercisable for 2,500 shares of common stock with a per share exercise price equal to the closing price of the common stock on the Nasdaq on the grant date. All such stock options vest in three equal annual installments beginning on the one-year anniversary of the grant date. Under the Compensation Policy, on the first trading day of each calendar year, each non-employee director is awarded a stock option exercisable for 600 shares of common stock, with a per share exercise price equal to the closing price of the common stock on the Nasdaq on the grant date, which becomes exercisable in three equal annual installments beginning on the first anniversary of the grant date. Additionally, pursuant to the Compensation Policy, each non-employee director is paid an annual cash retainer of \$40,000, prorated for partial years of service and paid quarterly in arrears.

The following table sets forth information with respect to compensation earned by or awarded to each of our non-employee directors who served on the Board of Directors during the fiscal year ended December 31, 2023:

| Name                   | Fees Earned<br>or Paid in<br>Cash (\$) | Option<br>Awards (\$)<br>(1) (2) | All Other<br>Compensation<br>(\$) | Total (\$) |
|------------------------|--|----------------------------------|-----------------------------------|------------|
| Anthony DiGiandomenico | 40,000                                 | 35,747                           |                                   | 75,747     |
| Michael Harsh          | 40,000                                 | 33,566                           |                                   | 73,566     |
| Alexander Tokman       | 40,000                                 | 35,747                           | 27,600                            | 103,347    |
| Louis Basenese         | 40,000                                 | 25,065                           |                                   | 65,065     |

(1) The amounts shown in this column indicate the grant date fair value of option awards granted in the subject year computed in accordance with FASB ASC Topic 718. For additional information regarding the assumptions made in calculating these amounts, see Notes 2 and 8 to the audited financial statements included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2023. The following table shows the number of shares subject to outstanding option awards held by each non-employee director as of December 31, 2023:

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|                        | Shares      |
|------------------------|-------------|
|                        | Subject to  |
|                        | Outstanding |
|                        | Option      |
| Name                   | Awards (#)  |
| Louis Basenese         | 17,921      |
| Anthony DiGiandomenico | 26,022      |
| Michael Harsh          | 25,460      |
| Alexander Tokman       | 26,022      |

- (2) In addition to annual awards granted pursuant to the Compensation Policy, in 2023 the Company awarded each director additional stock options in order to realign the incentive nature of the Company's equity compensation with the price of the Company's common stock.
- (3) Represent fees paid for consulting services pursuant to that certain Consulting Agreement, dated October 17, 2023, between the Company and Mr. Tokman.

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

The following tables set forth certain information regarding beneficial ownership of our voting stock as of March 24, 2024 by:

- each person or group of affiliated persons known by us to be the beneficial owner of more than 5% of any class of our voting stock;
- each named executive officer included in the Summary Compensation Table above;
- each of our directors;
- · each person nominated to become director; and
- · all executive officers, directors and nominees as a group.

<sup>(2)</sup> As of January 1, 2024, as a result of an automatic increase to the pool of shares available for issuance under the 2016 Plan on such date, the number of shares available for future issuance under the 2016 Plan was 2,381,416 shares.

Unless otherwise noted below, the address of each person listed in the tables is c/o ENDRA Life Sciences Inc. at 3600 Green Court, Suite 350, Ann Arbor, Michigan 48105. To our knowledge, each person listed below has sole voting and investment power over the shares shown as beneficially owned except to the extent jointly owned with spouses or otherwise noted below.

Beneficial ownership is determined in accordance with the rules of the SEC. The information does not necessarily indicate ownership for any other purpose. Under these rules, shares of stock which a person has the right to acquire (*i.e.*, by the exercise of any option or warrant) within 60 days after March 24, 2024 are deemed to be beneficially owned and outstanding for purposes of calculating the number of shares and the percentage beneficially owned by that person. However, these shares are not deemed to be beneficially owned and outstanding for purposes of computing the percentage beneficially owned by any other person. The applicable percentages of stock outstanding as of March 24, 2024 is based upon 11,035,659 shares of common stock and 34.976 shares of Series A Preferred Stock outstanding on that date.

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#### **Beneficial Ownership**

| Name of<br>Beneficial<br>Owner                              | Shares of<br>Common<br>Stock<br>Beneficially<br>Owned | Percentage<br>of Common<br>Stock<br>Beneficially<br>Owned | Shares of<br>Series A<br>Preferred<br>Stock<br>Beneficially<br>Owned | Percentage of Series A Preferred Stock Beneficially Owned |
|---|---|---|--|---|
| Francois Michelon   | 108,229(1)  | *   | -  | -   |
| Michael Thornton  | 136,122(2)  | 1.2%  | -  | -   |
| Irina Pestrikova  | 6,950(3)  | *   |  |   |
| Louis Basenese  | 14,636(4)   | *   | -  | -   |
| Anthony DiGiandomenico                                      | 161,887(5)  | 1.5%  | -  | -   |
| Michael Harsh   | 21,570(6)   | *   | -  | -   |
| Alexander Tokman  | 25,929(7)   | *   | -  | -   |
| All directors and executive officers as a group (7 persons) | 475,323   | 4.2%  | -  | -   |
| 5% Stockholders   |   |   | -  | -   |
| Mark R. Busch <sup>(8)</sup>                                |   |   | 17.488   | 50.0%   |
| Juan R. Rivero <sup>(9)</sup>                               |   |   | 17.488   | 50.0%   |

<sup>\*</sup> Less than one percent.

- (1)Consists of 4,860 shares of common stock, 103,262 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024 and 107 shares of common stock issuable upon the exercise of restricted warrants.
- (2) Consists of 34,139 shares of common stock, 100,770 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024 and 1,213 shares of common stock issuable upon the exercise of restricted warrants.
- (3) Consists of 6,950 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024.
- (4)Consists of 2,454 shares of common stock and 12,182 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024.
- (5) Consists of 102,434 shares of common stock, 17,786 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024 and 41,667 shares of common stock issuable upon the exercise of restricted warrants.
- (6)Consists of 3,457 shares of common stock, 17,810 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024 and 303 shares of common stock issuable upon the exercise of restricted warrants.
- (7)Consists of 8,143 shares of common stock and 17,786 shares of common stock issuable upon the exercise of options that are presently exercisable or becoming exercisable within 60 days of March 24, 2024.
- (8) Shares jointly owned with spouse. Mr. Busch's address is 300 S. Tryon St., Suite 1000, Charlotte, NC 28202.
- (9)Mr. Rivero's address is 14521 Jockey Circle, N. Davie, FL 33330.

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

# **Policy for Review of Related Person Transactions**

The Board of Directors has adopted a written policy with regard to related person transactions, which sets forth our procedures and standards for the review, approval or ratification of any transaction required to be reported in our filings with the SEC or in which one of our executive officers or directors has a direct or indirect material financial interest, with limited exceptions. Our policy is that the Corporate Governance and Nominating Committee shall review the material facts of all related person transactions (as defined in the related person transaction approval policy) and either approve or disapprove of the entry into any related person transaction. In the event that obtaining the advance approval of the Corporate Governance and Nominating Committee is not feasible, the Corporate Governance and Nominating Committee shall consider the related person transaction and, if the Corporate Governance and Nominating Committee determines it to be appropriate, may ratify the related person transaction. In determining whether to approve or ratify a related person transaction, the Corporate Governance and Nominating Committee will take into account, among other factors it deems appropriate, whether the related person transaction is on terms comparable to those available from an unaffiliated third-party under the same or similar circumstances and the extent of the related person's interest in the transaction.

SEC regulations define the related person transactions that require disclosure to include any transaction, arrangement or relationship in which the amount involved exceeds the lesser of (a) \$120,000 or (b) one percent of the average of the Company's total assets at year-end for the last two completed fiscal years in which it was or is to be a participant and in which a related person had or will have a direct or indirect material interest. A related person is: (i) an executive officer, director or director nominee of the Company, (ii) a beneficial owner of more than 5% of any class of the Company's voting securities, (iii) an immediate family member of an executive officer, director or director nominee or beneficial owner of more than 5% of any class of the Company's voting securities, or (iv) any entity that is owned or controlled by any of the foregoing persons or in which any of the foregoing persons has a substantial ownership interest or control.

Other than as set forth below, since January 1, 2022, the Company has not participated in any such related party transaction.

On May 2, 2023, the Company conducted a public offering in which Anthony DiGiandomenico, a director of the Company, purchased 83,333 shares of the Company's common stock and 41,667 warrants at the public offering price, for an aggregate purchase price of approximately \$100,000.

#### Item 14. Principal Accountant Fees and Services

RBSM LLP ("RBSM") audited our financial statements for the year ended December 31, 2023. The following table sets forth the aggregate fees billed or expected to be billed by RBSM for audit and non-audit services in 2023 and 2022, including "out-of-pocket" expenses incurred in rendering these services. The nature of the services provided for each category is described following the table.

| Fee Category       | 2023          | 2022          |
|--------------------|---------------|---------------|
| Audit Fees (1)     | \$<br>161,448 | \$<br>146,000 |
| Audit-Related Fees | _             | _             |
| Tax Fees (2)       | \$<br>60,000  | \$<br>30,000  |
| Total              | \$<br>221,448 | \$<br>176,000 |

<sup>(1)</sup> Audit fees include fees for professional services rendered for the audit of our annual statements, quarterly reviews, consents and assistance with and review of documents filed with the SEC.

(2) Tax fees include fees (or, for 2023, estimated fees) for professional services rendered for tax compliance, tax advice and tax planning.

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#### PART IV

# Item 15. Exhibits, Financial Statements and Schedules

- (a) List of documents filed as part of this report:
- 1. Financial Statements (see "Financial Statements and Supplementary Data" at Item 8 and incorporated herein by reference)
- 2. Financial Statement Schedules (Schedules to the Financial Statements have been omitted because the information required to be set forth therein is not applicable or is shown in the accompanying Financial Statements or notes thereto)

Incorporated

3. Exhibits

The following is a list of exhibits filed as part of this Annual Report:

| Exhibit     |  | by Reference      |         |         |             |
|-------------|--|-------------------|---------|---------|-------------|
| Number      | Exhibit Description  | Filed<br>Herewith | Form    | Exhibit | Filing Date |
| <u>3.1</u>  | Fourth Amended and Restated Certificate of Incorporation of the Company                  |                   | 8-K     | 3.2     | 05/12/17    |
| <u>3.2</u>  | Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation |                   | 8-K     | 3.1     | 12/08/22    |
| <u>3.3</u>  | Amended and Restated Bylaws of the Company   |                   | S-1     | 3.4     | 12/06/16    |
| <u>4.1</u>  | Specimen Certificate representing shares of common stock of the Company                  |                   | S-1     | 4.1     | 11/21/16    |
| <u>4.2</u>  | Certificate of Designations of Series A Convertible Preferred Stock                      |                   | 8-K     | 4.1     | 12/11/19    |
| <u>4.3</u>  | Form of Warrant issued in December 2019 Series A Convertible Preferred Stock Offering    |                   | 8-K     | 4.2     | 12/11/19    |
| <u>4.4</u>  | Certificate of Designations of Series B Convertible Preferred Stock                      |                   | 8-K     | 4.1     | 12/26/19    |
| <u>4.5</u>  | Form of Warrant issued in December 2019 Series B Convertible Preferred Stock Offering    |                   | 8-K     | 4.2     | 12/26/19    |
| <u>4.6</u>  | Certificate of Designations of Series C Preferred Stock                                  |                   | 8-K     | 3.1     | 09/27/22    |
| <u>4.7</u>  | Form of Warrant issued in April 2023 Underwritten Public Offering                        |                   | S-1     | 4.2     | 03/30/2023  |
| 4.8         | Form of Underwriter's Warrant issued in April 2023 Underwritten Public Offering          |                   | S-1/A   | 4.3     | 04/18/2023  |
| 4.9         | Form of Warrant Agency Agreement   |                   | S-1     | 4.4     | 03/30/2023  |
| <u>4.13</u> | <u>Description of Securities</u>   |                   | 10-K    | 4.12    | 03/30/22    |
| <u>10.1</u> | ENDRA Life Sciences Inc. 2016 Omnibus Incentive Plan *                                   |                   | S-1     | 10.4    | 12/06/16    |
| <u>10.2</u> | First Amendment to ENDRA Life Sciences Inc. 2016 Omnibus Incentive Plan*                 |                   | DEF 14A | Appx. A | 05/10/18    |
| <u>10.3</u> | Form of Stock Option Award under 2016 Omnibus Incentive Plan*                            |                   | S-1     | 10.5    | 12/06/16    |
| <u>10.4</u> | Form of Restricted Stock Unit Award under 2016 Omnibus Incentive Plan*                   |                   | S-1     | 10.6    | 12/06/16    |

| 10.5   Non-Employee Director Compensation Policy, effective January 30, 2023*   10-K   10.6  | 03/16/23<br>11/21/16<br>05/12/17<br>12/27/19<br>05/12/17<br>12/27/19<br>11/21/16<br>05/03/17<br>01/30/18 |
|--|--|
| Amended and Restated Employment Agreement, dated May 12, 2017, by and between the Company and Francois Michelon*  10.8 First Amendment to Employment Agreement, dated December 27, 2019, by and between the Company and Francois Michelon*  10.9 Amended and Restated Employment Agreement, dated May 12, 2017, by and between the Company and Michael Thornton*  10.10 First Amendment to Employment Agreement, dated December 27, 2019, by and between the Company and Michael Thornton*  10.11 Collaborative Research Agreement, dated April 22, 2016, by and between the Company and General Electric Company.  10.12 Amendment to Collaborative Research Agreement, dated April 21, 2017, by and between the Company and General Electric Company.  10.13 Amendment 2 to Collaborative Research Agreement, dated January 30, 2018, by and between the Company and General Electric Company.  54  Table of Contents  10.14 Amendment 3 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company.  10.13 Amendment 4 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company.  10.14 Amendment 5 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company.  10.15 Amendment 4 to Collaborative Research Agreement, dated December 16, 2020, by and between the Company and General Electric Company.  10.16 Amendment 5 to Collaborative Research Agreement, dated December 16, 2022, 8-K 10,1   | 12/27/19<br>05/12/17<br>12/27/19<br>11/21/16<br>05/03/17   |
| First Amendment to Employment Agreement, dated December 27, 2019, by and between the Company and Francois Michelon*  10.9 Amended and Restated Employment Agreement, dated May 12, 2017, by and between the Company and Michael Thornton*  10.10 First Amendment to Employment Agreement, dated December 27, 2019, by and between the Company and Michael Thornton*  10.11 Collaborative Research Agreement, dated April 22, 2016, by and between the Company and General Electric Company  10.12 Amendment to Collaborative Research Agreement, dated April 21, 2017, by and between the Company and General Electric Company  10.13 Amendment 2 to Collaborative Research Agreement, dated January 30, 2018, by and between the Company and General Electric Company  10.14 Amendment 3 to Collaborative Research Agreement, dated January 30, 2018, by and between the Company and General Electric Company  10.14 Amendment 3 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company  10.15 Amendment 4 to Collaborative Research Agreement, dated December 16, 2020, by and between the Company and General Electric Company  10.16 Amendment 5 to Collaborative Research Agreement, dated December 16, 2022, 8-K 10,1  | 12/27/19<br>05/12/17<br>12/27/19<br>11/21/16<br>05/03/17   |
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| between the Company and Michael Thornton*  10.10 First Amendment to Employment Agreement, dated December 27, 2019, by and between the Company, and Michael Thornton*  10.11 Collaborative Research Agreement, dated April 22, 2016, by and between the Company and General Electric Company  10.12 Amendment to Collaborative Research Agreement, dated April 21, 2017, by and between the Company and General Electric Company  10.13 Amendment 2 to Collaborative Research Agreement, dated January 30, 2018, by and between the Company and General Electric Company  54  Table of Contents  10.14 Amendment 3 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company  10.15 Amendment 4 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company  10.15 Amendment 4 to Collaborative Research Agreement, dated December 16, 2020, by and between the Company and General Electric Company  10.16 Amendment 5 to Collaborative Research Agreement, dated December 16, 2022, 8-K 10,1  | 12/27/19<br>11/21/16<br>05/03/17   |
| between the Company and Michael Thornton*  10.11   | 11/21/16<br>05/03/17   |
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| Table of Contents       10.14     Amendment 3 to Collaborative Research Agreement, dated January 13, 2020, by and between the Company and General Electric Company     8-K     10.1       10.15     Amendment 4 to Collaborative Research Agreement, dated December 16, 2020, by and between the Company and General Electric Company     8-K     10.1       10.16     Amendment 5 to Collaborative Research Agreement, dated December 16, 2022, and d |  |
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| 10.15Amendment 4 to Collaborative Research Agreement, dated December 16, 2020,<br>by and between the Company and General Electric Company8-K10.110.16Amendment 5 to Collaborative Research Agreement, dated December 16, 2022,8-K10,1  | 01/15/20   |
| 10.16 Amendment 5 to Collaborative Research Agreement, dated December 16, 2022, 8-K 10,1   | 12/21/20   |
|  | 12/19/22   |
| by and between the Company and General Electric Company  |  |
| 10.17 Gross Lease, dated January 1, 2015, between the Company and Green Court LLC S-1 10.18  | 11/21/16   |
| 10.18 Amendment to Gross Lease, dated October 10, 2017, by and between the Company and Green Court LLC   | 05/15/18   |
| 10.19 Second Amendment to Lease, dated March 15, 2021, by and between the 10-K 10.18   | 03/25/21   |
| Company and Green Court LLC  10.20 Consulting Agreement, dated October 31, 2017, by and between the Company  10-K  10.16   | 03/20/18   |
| and StarFish Product Engineering, Inc.  10.21 Consulting Agreement, dated October 17, 2023, by and between the Company x   |  |
| 10.21 Consulting Agreement, dated October 17, 2023, by and between the Company x and Alexander Tokman*   |  |
| 10.22 Offer Letter, dated June 9, 2021, by and between the Company and Irina Pestrikova.*  |  |
| 21.1 Subsidiaries of the Company 10-K 21.1   | 03/30/22   |
| 23.1 Consent of RBSM LLP, Independent Registered Public Accounting Firm (with  |  |
| respect to Forms S-3)  |  |
| 23.2 Consent of RBSM LLP, Independent Registered Public Accounting Firm (with respect to Forms S-8)  |  |
| 24.1 Power of Attorney (included on signature page)  |  |
| 31.1 Certification Pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities  Exchange Act of 1934  x   |  |
| 31.2 Certification Pursuant to Rule 13a-14(a) or Rule 15d-14(a) of the Securities  |  |
| Exchange Act of 1934   |  |
| 32.1 Certification Pursuant to 18 U.S.C Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002   |  |
| 906 of the Sarbanes-Oxley Act of 2002  97 Incentive-Based Compensation Recovery Policy x   |  |
| 101.INS XBRL Instance Document   |  |
| 101.SCH XBRL Taxonomy Schema   |  |
| 101.CAL XBRL Taxonomy Extension Calculation Linkbase   |  |
| 101.DEF XBRL Taxonomy Extension Definition Linkbase  |  |

<sup>\*</sup> Indicates management compensatory plan, contract or arrangement.

XBRL Taxonomy Extension Label Linkbase

XBRL Taxonomy Extension Presentation Linkbase

# Item 16. Form 10-K Summary

None.

101.LAB

101.PRE

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# **SIGNATURES**

ENDRA Life Sciences Inc.

Dated: March 28, 2024

By: /s/ Francois Michelon

Francois Michelon Chief Executive Officer and Director (Principal Executive Officer)

# POWER OF ATTORNEY AND SIGNATURES

We, the undersigned officers and directors of ENDRA Life Sciences Inc., hereby severally constitute and appoint Francois Michelon our true and lawful attorney, with full power to him to sign for us and in our names in the capacities indicated below, any amendments to this Annual Report on Form 10-K, and generally to do all things in our names and on our behalf in such capacities to enable ENDRA Life Sciences Inc. to comply with the provisions of the Securities Exchange Act of 1934, as amended, and all the requirements of the Securities Exchange Commission.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

| Signatures  | Title   | Date           |
|---|---|----------------|
| /s/ Francois Michelon Francois Michelon           | Chief Executive Officer and Director (Principal Executive Officer)    | March 28, 2024 |
| /s/ Irina Pestrikova<br>Irina Pestrikova          | Senior Director, Finance (Principal Financial and Accounting Officer) | March 28, 2024 |
| /s/ Louis J. Basenese<br>Louis J. Basenese        | Director  | March 28, 2024 |
| /s/ Anthony DiGiandomenico Anthony DiGiandomenico | Director  | March 28, 2024 |
| /s/ Michael Harsh<br>Michael Harsh                | Director  | March 28, 2024 |
| /s/ Alexander Tokman Alexander Tokman             | Director  | March 28, 2024 |
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#### CONSULTING AGREEMENT

This CONSULTING AGREEMENT ("Agreement"), made as of this October 17, 2023 (the "Effective Date"), is entered into by ENDRA Life Sciences Inc., a Delaware corporation ("Company"), and Alex Tokman ("Consultant").

#### **INTRODUCTION**

The Company desires to retain the services of the Consultant as a consultant to the Company, and the Consultant desires to serve as a consultant to the Company. For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the parties agree as follows:

#### 1. Services.

(a) Consultant agrees to provide Commercialization services ("Services"), with deliverables detailed below

#### Contract Deliverables:

- 1. Attain a hands-on understanding of TAEUS advantages and limitations.
- 2. Facilitate the creation and update the ENDRA Mission / Vision. This will involve face-to-face working sessions in Ann Arbor.
- 3. Facilitate the creation and update the ENDRA Go-To-Market strategy. This will also involve face-to-face sessions in Ann Arbor.
- 4. Facilitate the creation and update of ENDRA messaging to investors after step 1 through 3 are completed. This will be accomplished with Francois, Lous and Alex.
- 5. Start actively looking for AI M&A opportunities that are consistent with the decisions made above so that we can add these skills to the ENDRA tool box. Opportunities may be in embedded realtime AI for measurement and analysis and/or Generative AI with the options to integrate text, voice and images.

and other ad-hoc BD related activities at the Company's request with a Maximum Commitment of 20 (twenty) hours per week. Consultant represents and warrants to the Company that it is able to provide the Services in a professional manner consistent with this type of engagement.

- (b) Consultant will report progress on a weekly basis in a format mutually acceptable.
- (c) Consultant will comply with all policies, rules and regulations adopted by the Company.

ENDRA Life Sciences 3600 Green Court Suite 350 Ann Arbor, MI 48105 USA +1-734-335-0468 www.endrainc.com



# 2. **Term**.

- (a) This Agreement shall commence on the Effective Date and shall continue until the January 31, 2024, unless extended by mutual written consent of the Company and the Consultant or sooner terminated as provided below (the "Consultation Period").
- (b) The Company or the Consultant may, with or without cause, terminate the Consultation Period at any time, effective upon 15 days prior written notice. Following receipt of notice of termination, the Consultant shall receive prior approval for all Services performed in excess of the Minimum Commitment prior to the effective date of termination.
  - (c) The provisions of Sections 4, 5 and 7 of this Agreement shall survive the expiration or termination of this Agreement.

#### 3. Compensation.

- (a) The Consultant shall be compensated based on a fee of \$150 per hour that the Consultant spends providing consulting services hereunder documented in a manner reasonably satisfactory to the Company. **Travel time is excluded**.
  - (b) Any effort beyond 20 hours per week would need to be approved in advance by the Company
- (c) The Company shall reimburse the Consultant for all reasonable and necessary expenses incurred or paid by the Consultant in connection with, or related to, the performance of consulting services hereunder (with the prior written approval of the Company). Any expense over \$2000 must be approved in advance by ENDRA. Consultant shall not be entitled to any benefits, coverages, or privileges, under any benefit or employee plan maintained by the Company. Company will make payments for consulting fees earned within thirty (30) days of receipt of an invoice therefore from the Consultant, no more frequently than on a monthly basis.

# 4. Confidentiality.

(a) Consultant acknowledges that his relationship with the Company is one of high trust and confidence and that in the course of his service to the Company he will have access to and contact with confidential and proprietary information of the Company and its affiliates ("Proprietary Information"). Consultant agrees that he will not, during the Consultation Period or at any time thereafter, disclose to others, or use for his benefit or the benefit of others, any Proprietary Information or Inventions (as defined below). Consultant understands that the Company is a publicly traded company and that federal securities laws prohibit trading in the Company's stock while in possession in material nonpublic information about the Company or providing information to others that may trade in the Company's stock.

(b) Upon termination of this Agreement or at any other time upon request by the Company, the Consultant shall promptly deliver to the Company all documents and materials embodying Proprietary Information.

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- (c) Consultant represents that his retention as a Consultant with the Company, and his performance under this Agreement does not, and will not, breach any agreement to which the Consultant is a party or any policy by which the Consultant is bound. Consultant shall not disclose to the Company any trade secrets or confidential or proprietary information of any other party.
- (d) Consultant agrees that any breach of the terms of this Section 4 would result in irreparable injury and damage to the Company for which the Company would have no adequate remedy at law; Consultant therefore also agrees that in the event of said breach or any threat of breach, the Company will be entitled to an immediate injunction and restraining order to prevent such breach and/or threatened breach and/or continued breach by Consultant and/or any and all entities acting for and/or with Consultant, without having to prove damages, in addition to any other remedies to which the Company may be entitled at law or in equity. The terms of this paragraph will not prevent the Company from pursuing any other available remedies for any breach or threatened breach hereof, including but not limited to the recovery of damages from Consultant. Consultant acknowledges that the Company would not have entered into this Agreement had Consultant not agreed to the provisions of this Section 4.

#### 5. Inventions.

- (a) All results and proceeds of the Services, including all writings, processes, techniques, methods, ideas, concepts, research, proposals, material inventions, discoveries, data, technology, designs, innovations, improvements and other work product of any nature whatsoever (whether or not patentable and whether or not copyrightable) related to the business of the Company, which are made, conceived, written, designed or developed by the Consultant in the course of the performance of Services hereunder, solely or jointly with others, and whether during normal business hours or otherwise ("Inventions"), shall be the sole property of the Company. Consultant agrees to assign and hereby assigns to the Company all Inventions and any and all related patents, copyrights, trademarks, trade names, and other industrial and intellectual property rights and applications therefor, in the United States and elsewhere, and appoints any officer of the Company as his duly authorized attorney to execute, file, prosecute and protect the same before any government agency, court or authority. Consultant hereby waives all claims to moral rights in all Inventions. Upon the request of the Company and at the Company's expense, the Consultant shall execute such further assignments, documents and other instruments as may be necessary or desirable to fully and completely assign all Inventions to the Company and to assist the Company in applying for, obtaining and enforcing patents or copyrights or other rights in the United States and in any foreign country with respect to any Invention.
- (b) Consultant shall promptly disclose to the Company all Inventions and will maintain adequate and current written records (in the form of notes, sketches, drawings or in such form as may be specified by the Company) to document the conception and/or first actual reduction to practice of any Invention. Such written records shall be available to and remain the sole property of the Company at all times.

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(c) Consultant acknowledges that all Inventions constitute Proprietary Information of the Company and is subject to the restrictions on disclosure, publication and use set forth in this Agreement.

#### 6. Independent Contractor Status.

- (a) Consultant shall perform all services under this Agreement as an "independent contractor" and not as an employee of the Company.
- (b) Consultant is responsible for all taxes (federal, state and local) due with respect to the compensation paid or payable pursuant to this Agreement and shall indemnify and hold the Company and its officers and directors harmless from and against all such liabilities.
- (c) Consultant is not authorized to create any liability, obligation or responsibility, express or implied, on behalf of, or in the name of, the Company or to bind the Company in any manner.

#### 7. Miscellaneous.

(a) All demands, notices, requests, consents and other communications required or permitted under this Agreement shall be in writing and shall be personally delivered or sent by email, reputable commercial overnight delivery service (including Federal Express and U.S. Postal Service overnight delivery service) or, deposited with the U.S. Postal Service mailed first class, registered or certified mail, postage prepaid, as set forth below:

If to the Consultant:

Alex Tokman Address \*\*\*\*\*\* Email: \*\*\*\*\*\*

If to the Company:

Endra Life Sciences Inc Attn: Michael Harsh 3600 Green Court, Suite 350 Ann Arbor, MI 48105 Email: \*\*\*\*\*\*

> ENDRA Life Sciences 3600 Green Court Suite 350 Ann Arbor, MI 48105 USA +1-734-335-0468 www.endrainc.com

> > 4



Notices shall be deemed given upon the earlier to occur of (i) receipt by the party to whom such notice is directed; (ii) if sent by email, on the day (other than a Saturday, Sunday or legal holiday in the jurisdiction to which such notice is directed) such notice is sent if sent prior to 5:00 p.m. Eastern Time and, if sent after 5:00 p.m. Eastern Time, on the day (other than a Saturday, Sunday or legal holiday in the jurisdiction to which such notice is directed) after which such notice is sent; (iii) on the first business day (other than a Saturday, Sunday or legal holiday in the jurisdiction to which such notice is directed) following the day the same is deposited with the commercial courier if sent by commercial overnight delivery service; or (iv) the fifth day (other than a Saturday, Sunday or legal holiday in the jurisdiction to which such notice is directed) following deposit thereof with the U.S. Postal Service as aforesaid. Each party, by notice duly given in accordance therewith, may specify a different address for the giving of any notice hereunder.

- (b) This agreement: (i) may be executed in any number of counterparts, each of which, when executed by both parties to this agreement shall be deemed to be an original, and all of which counterparts together shall constitute one and the same instrument; (ii) shall be governed by and construed under the laws of the state of Michigan applicable to contracts made, accepted, and performed wholly within the state of Michigan, without application of principles of conflicts of law; (iii) may be amended, modified, or terminated, and any right under this agreement may be waived in whole or in part, only by a writing executed by both the Company and the Consultant; (iv) may not be assigned in any way by the Company or the Consultant except with the prior written approval of the other party; (v) contains headings only for convenience, which headings do not form part, and shall not be used in construction, of this agreement; (vi) shall bind and inure to the benefit of the parties and their respective legal representatives, successors and permitted assigns; and (vii) is not intended to inure to the benefit of any third-party beneficiaries.
- (c) Consultant acknowledges and agrees that the agreements and restrictions contained in Sections 4, and 5 are necessary for the protection of the business and goodwill of the Company and are reasonable for such purpose. Consultant acknowledges and agrees that any breach of the provisions of Sections 4 and 5 may cause the Company substantial and irreparable damage for which the Company cannot be adequately compensated by monetary damages alone, and, therefore, in the event of any such breach, in addition to such other remedies which may be available, the Company shall have the right to seek specific performance and injunctive relief without the necessity of proving actual damages.
- (d) Waiver of any provision of this Agreement, in whole or in part, in any one instance shall not constitute a waiver of any other provision in the same instance, nor any waiver of the same provision in another instance, but each provision shall continue in full force and effect with respect to any other then-existing or subsequent breach.
- (e) This Agreement constitutes the entire agreement of the parties with respect to its subject matter, superseding all prior oral and written communications, proposals, negotiations, representations, understandings, courses of dealing, agreements, contracts, and the like between the parties in such respect and supersedes any prior Consulting Agreement between the parties.

ENDRA Life Sciences 3600 Green Court Suite 350 Ann Arbor, MI 48105 USA +1-734-335-0468 www.endrainc.com



ENDRA INC

By: /s/ Michael Harsh

Name: Michael Harsh Board Member ENDRA Life Sciences

> /s/ Alex Tokman Alex Tokman

ENDRA Life Sciences 3600 Green Court Suite 350 Ann Arbor, MI 48105 USA +1-734-335-0468 www.endrainc.com



June 8, 2021

Ms. Irina Pestrikova
\*\*\*\*\*
\*\*\*\*\*

Dear Irina:

It is with great pleasure that ENDRA Life Sciences offers you the position of Senior Director, Finance, reporting to me. This role will initially be part-time and then evolve to a full-time leadership position. You will be responsible for leading the finance and accounting function as we continue to grow and prepare for commercial and manufacturing activities worldwide.

Terms of this offer include base pay of \$3,076 per week, which is equivalent to \$160,000 per year (this annualized amount is stated for convenience only and does not serve to guarantee employment for any period of time). While part-time, you will receive a pro-rated salary. It is anticipated that you will join us in a full-time capacity before the end of the summer.

Other elements of your compensation package include:

- · A target annual performance-based bonus of 15%, which will be prorated based upon your start date and paid after Board approval in March each year;
- 20,000 stock option shares upon hire, subject to a vesting schedule (full agreement provided separately);
- Eligibility to participate in an annual Employee Stock Option Plan, subject to performance and at the discretion of the board;
- Paid time off, including 15 personal days, 2 flex days, regular company designated holidays, and end of year holiday shutdown;
- Employee benefits plans including medical, dental, vision, and 401(k) plans when your schedule increases to 30 hours or more weekly.

If you have any questions concerning the benefits for which you will be eligible, please feel free to contact our HR Leader, Steve Freeman (\*\*\*\*; phone \*\*\*\*).

This offer is contingent upon successful and satisfactory completion of a background check (references, criminal, financial, and education verification), board approval, work authorization, and drug screen. Full-time employment is also contingent upon relinquishing all interests and involvement in other business activities, such as Atlas, Wells Compliance, Storycorp, and other business interests which could impact your commitment to ENDRA.

We are very excited about you joining our leadership team at a formative and crucial junction in the evolution of ENDRA. I hope that you will join us on this great journey!

Sincerely,

/s/ Francois Michelon

François Michelon Chief Executive Officer

The provisions of this offer of employment have been read, are understood, and the offer is herewith accepted.

| Signature: | /s/ Irina Pestrikova | Date: | /s/ June 9, 2021 |
|------------|----------------------|-------|------------------|
|            |                      |       |                  |

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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 (File Nos. 333-235883, 333-233466, 333-254711, 333-277058) of our report dated March 28, 2024 on the consolidated financial statements of ENDRA Life Sciences Inc. and its subsidiaries, appearing in this Annual Report on Form 10-K of ENDRA Life Sciences Inc. for the year ended December 31, 2023. Our report includes an explanatory paragraph expressing substantial doubt regarding the Company's ability to continue as a going concern.

/s/ RBSM LLP

New York, NY March 28, 2024

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 File Nos. 333-218894, 333-233178, 333-237415, 333-254713, 333-263992 and 333-270616) of our report dated March 28, 2024 on the consolidated financial statements of ENDRA Life Sciences Inc. and its subsidiaries, appearing in the Annual Report on Form 10-K of ENDRA Life Sciences Inc. for the year ended December 31, 2023. Our report includes an explanatory paragraph expressing substantial doubt regarding the Company's ability to continue as a going concern.

/s/ RBSM LLP

New York, NY March 28, 2024

# CERTIFICATION OF THE PRINCIPAL EXECUTIVE OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

#### I, François Michelon, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of ENDRA Life Sciences 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(s) 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 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 fiscal 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(s) 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.

Date: March 28, 2024

/s/ Francois Michelon

Name: François Michelon Title: Chief Executive Officer

# CERTIFICATION OF THE PRINCIPAL FINANCIAL OFFICER PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

# I, Irina Pestrikova, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of ENDRA Life Sciences 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(s) 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 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 fiscal 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(s) 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.

Date: March 28, 2024

/s/ Irina Pestrikova

Name: Irina Pestrikova Title: Senior Director, Finance

(Principal Financial Officer and Principal Accounting

Officer)

# CERTIFICATION 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 on Form 10-K of ENDRA Life Sciences Inc. (the "Company") for the year ended December 31, 2023 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), we, Francois Michelon, Chief Executive Officer of the Company, and Irina Pestrikova, Senior Director, Finance of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to our knowledge that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

A signed original of this written statement required by Section 906 has been provided to ENDRA Life Sciences Inc. and will be retained by ENDRA Life Sciences Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

/s/ François Michelon

Name: Francois Michelon Title: Chief Executive Officer

(Principal Executive Officer)

Date: March 28, 2024

/s/ Irina Pestrikova

Name: Irina Pestrikova Title: Senior Director, Finance

(Principal Financial Officer and Principal Accounting

Officer)

Date: March 28, 2024

#### ENDRA LIFE SCIENCES INC.

#### INCENTIVE-BASED COMPENSATION RECOVERY POLICY

- 1. <u>Policy Purpose</u>. The purpose of ENDRA Life Sciences Inc. (the "<u>Company</u>") Incentive-Based Compensation Recovery Policy (this "<u>Policy</u>") is to enable the Company to recover Erroneously Awarded Compensation in the event that the Company is required to prepare an Accounting Restatement. This Policy is intended to comply with the requirements set forth in Rule 5608 of the Nasdaq Stock Market (the "<u>Listing Rule</u>") and shall be construed and interpreted in accordance with such intent. Unless otherwise defined in this Policy, capitalized terms shall have the meaning ascribed to such terms in <u>Section 7</u>. This Policy shall become effective on December 1, 2023. Where the context requires, reference to the Company shall include the Company's subsidiaries and affiliates (as determined by the Committee in its discretion).
- 2. <u>Policy Administration</u>. This Policy shall be administered by the Compensation Committee of the Board (the "<u>Committee</u>") unless the Board determines to administer this Policy itself. The Committee has full and final authority to make all determinations under this Policy. All determinations and decisions made by the Committee pursuant to the provisions of this Policy shall be final, conclusive and binding on all persons, including the Company, its affiliates, its stockholders and Executive Officers. Any action or inaction by the Committee with respect to an Executive Officer under this Policy in no way limits the Committee's actions or decisions not to act with respect to any other Executive Officer under this Policy or under any similar policy, agreement or arrangement, nor shall any such action or inaction serve as a waiver of any rights the Company may have against any Executive Officer other than as set forth in this Policy.
- 3. <u>Policy Application</u>. This Policy applies to all Incentive-Based Compensation received by a person: (a) after October 2, 2023, and beginning service as an Executive Officer; (b) who served as an Executive Officer at any time during the performance period for such Incentive-Based Compensation; (c) while the Company had a class of securities listed on a national securities exchange or a national securities association; and (d) during the three completed fiscal years immediately preceding the Accounting Restatement Date. In addition to such last three completed fiscal years, the immediately preceding clause (d) includes any transition period that results from a change in the Company's fiscal year within or immediately following such three completed fiscal years; provided, however, that a transition period between the last day of the Company's previous fiscal year end and the first day of its new fiscal year that comprises a period of nine to twelve months shall be deemed a completed fiscal year. For purposes of this Section 3, Incentive-Based Compensation is deemed received in the Company's fiscal period during which the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained, even if the payment or grant of the Incentive-Based Compensation occurs after the end of that period. For the avoidance of doubt, Incentive-Based Compensation that is subject to both a Financial Reporting Measure vesting condition and a service-based vesting condition shall be considered received when the relevant Financial Reporting Measure is achieved, even if the Incentive-Based Compensation continues to be subject to the service-based vesting condition.
- 4. <u>Policy Recovery Requirement</u>. In the event of an Accounting Restatement, the Company must recover, reasonably promptly, Erroneously Awarded Compensation, in amounts determined pursuant to this Policy. The Company's obligation to recover Erroneously Awarded Compensation is not dependent on if or when the Company files restated financial statements. Recovery under this Policy with respect to an Executive Officer shall not require the finding of any misconduct by such Executive Officer or such Executive Officer being found responsible for the accounting error leading to an Accounting Restatement. In the event of an Accounting Restatement, the Company shall satisfy the Company's obligations under this Policy to recover any amount owed from any applicable Executive Officer by exercising its sole and absolute discretion in how to accomplish such recovery. The Company's recovery obligation pursuant to this Section 4 shall not apply to the extent that the Committee, or in the absence of the Committee, a majority of the independent directors serving on the Board, determines that such recovery would be impracticable and:
  - a. The direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered. Before concluding that it would be impracticable to recover any amount of Erroneously Awarded Compensation based on expense of enforcement, the Company must make a reasonable attempt to recover such Erroneously Awarded Compensation, document such reasonable attempt(s) to recover, and provide that documentation to the Stock Exchange; or
  - b. Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the registrant, to fail to meet the requirements of Section 401(a)(13) or Section 411(a) of the Code.
- 5. <u>Policy Prohibition on Indemnification and Insurance Reimbursement</u>. The Company is prohibited from indemnifying any Executive Officer or former Executive Officer against the loss of Erroneously Awarded Compensation. Further, the Company is prohibited from paying or reimbursing an Executive Officer for purchasing insurance to cover any such loss.
- 6. <u>Required Policy-Related Filings</u>. The Company shall file all disclosures with respect to this Policy in accordance with the requirements of the Federal securities laws, including disclosures required by U.S. Securities and Exchange Commission filings.

#### 7. Definitions.

- a. "Accounting Restatement" means an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period.
- b. "Accounting Restatement Date" means the earlier to occur of: (i) the date the Board, a committee of the Board, or the officer or officers of the Company authorized to take such action if the Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare an Accounting Restatement; and (ii) the date a court, regulator, or other legally authorized body directs the Company to prepare an Accounting Restatement.
- c. "Board" means the board of directors of the Company.

- e. "Erroneously Awarded Compensation" means, in the event of an Accounting Restatement, the amount of Incentive-Based Compensation previously received that exceeds the amount of Incentive-Based Compensation that otherwise would have been received had it been determined based on the restated amounts in such Accounting Restatement, and must be computed without regard to any taxes incurred or paid by the relevant Executive Officer; provided, however, that for Incentive-Based Compensation based on stock price or total stockholder return, where the amount of Erroneously Awarded Compensation is not subject to mathematical recalculation directly from the information in an Accounting Restatement: (i) the amount of Erroneously Awarded Compensation must be based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total stockholder return upon which the Incentive-Based Compensation was received; and (ii) the Company must maintain documentation of the determination of that reasonable estimate and provide such documentation to the Stock Exchange.
- f. "Executive Officer" means the Company's president, principal financial officer, principal accounting officer (or if there is no such accounting officer, the controller), any vice-president of the Company in charge of a principal business unit, division, or function (such as sales, administration, or finance), any other officer who performs a policy-making function, or any other person who performs similar policy-making functions for the Company. An executive officer of the Company's parent or subsidiary is deemed an "Executive Officer" if the executive officer performs such policy making functions for the Company. For the avoidance of doubt, "Executive Officer" includes, but is not limited to, any person identified as an executive officer pursuant to Item 401(b) of Regulation S-K under the U.S. Securities Act of 1933, as amended.
- g. "<u>Financial Reporting Measure</u>" means any measure that is determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measure that is derived wholly or in part from such measure; <u>provided</u>, <u>however</u>, that a Financial Reporting Measure is not required to be presented within the Company's financial statements or included in a filing with the U.S. Securities and Exchange Commission to qualify as a "Financial Reporting Measure." For purposes of this Policy, "Financial Reporting Measure" includes, but is not limited to, stock price and total stockholder return.
- h. "<u>Incentive-Based Compensation</u>" means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure.
- i. "Stock Exchange" means the national stock exchange on which the Company's common stock is listed.
- 8. <u>Acknowledgement</u>. Each Executive Officer shall sign and return to the Company, within 30 calendar days following the later of (i) the effective date of this Policy first set forth above or (ii) the date the individual becomes an Executive Officer, the Acknowledgement Form attached hereto as <u>Exhibit A</u>, pursuant to which the Executive Officer agrees to be bound by, and to comply with, the terms and conditions of this Policy.
- 9. <u>Committee Indemnification</u>. Any members of the Committee, and any other members of the Board who assist in the administration of this Policy, shall not be personally liable for any action, determination or interpretation made with respect to this Policy and shall be fully indemnified by the Company to the fullest extent under applicable law and Company policy with respect to any such action, determination or interpretation. The foregoing sentence shall not limit any other rights to indemnification of the members of the Board under applicable law or Company policy.

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- 10. <u>Severability</u>. The provisions in this Policy are intended to be applied to the fullest extent of the law. To the extent that any provision of this Policy is found to be unenforceable or invalid under any applicable law, such provision shall be applied to the maximum extent permitted, and shall automatically be deemed amended in a manner consistent with its objectives to the extent necessary to conform to any limitations required under applicable law.
- 11. <u>Amendment; Termination</u>. The Board may amend this Policy from time to time in its sole and absolute discretion and shall amend this Policy as it deems necessary to reflect the Listing Rule. The Board may terminate this Policy at any time.
- 12. Other Recovery Obligations; General Rights. To the extent that the application of this Policy would provide for recovery of Incentive-Based Compensation that the Company recovers pursuant to Section 304 of the Sarbanes-Oxley Act or other recovery obligations, the amount the relevant Executive Officer has already reimbursed the Company will be credited to the required recovery under this Policy. This Policy shall not limit the rights of the Company to take any other actions or pursue other remedies that the Company may deem appropriate under the circumstances and under applicable law. To the maximum extent permitted under the Listing Rule, this Policy shall be administered in compliance with (or pursuant to an exemption from the application of) Section 409A of the Code.
- 13. <u>Successors</u>. This Policy is binding and enforceable against all Executive Officers and their beneficiaries, heirs, executors, administrators or other legal representatives.
- 14. <u>Governing Law; Venue</u>. This Policy and all rights and obligations hereunder are governed by and construed in accordance with the internal laws of the State of Delaware, excluding any choice of law rules or principles that may direct the application of the laws of another jurisdiction. All actions arising out of or relating to this Policy shall be heard and determined exclusively in the Court of Chancery of the State of Delaware or, if such court declines to exercise jurisdiction or if subject matter jurisdiction over the matter that is the subject of any such legal action or proceeding is vested exclusively in the U.S. Federal courts, the U.S. District Court for the District of Delaware.

#### **EXHIBIT A**

# ENDRA LIFE SCIENCES INC. INCENTIVE-BASED COMPENSATION RECOVERY POLICY

#### ACKNOWLEDGEMENT FORM

By signing below, the undersigned acknowledges and confirms that the undersigned has received and reviewed a copy of ENDRA Life Sciences Inc. (the "<u>Company</u>") Incentive-Based Compensation Recovery Policy (the "<u>Policy</u>").

By signing this Acknowledgement Form, the undersigned acknowledges and agrees that the undersigned is and will continue to be subject to the Policy and that the Policy will apply both during and after the undersigned's employment with the Company. Further, by signing below, the undersigned agrees to abide by the terms of the Policy, including, without limitation, by returning any Erroneously Awarded Compensation (as defined in the Policy) to the Company to the extent required by, and in a manner consistent with, the Policy. Further, by signing below, the undersigned agrees that the terms of the Policy shall govern in the event of any inconsistency between the Policy and the terms of any employment agreement to which the undersigned is a party, or the terms of any compensation plan, program or agreement under which any compensation has been granted, awarded, earned or paid.

|     | EXECUTIVE OFFICER |
|-----|-------------------|
|     | Signature         |
|     | Print Name        |
|     | Date              |
| A-1 |                   |