UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

\times	ANNUAL REPORT PURSUANT TO	SECTION 13 OR 15(d) OF	THE SECURITIES EXCHANGE ACT O	F 1934
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For the fiscal year ended December 31, 2019

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

For the transition period from______ to_____

Commission File Number: 001-36329

Recro Pharma, Inc.

(Exact name of registrant as specified in its charter)

Pennsylvania (State or other jurisdiction of incorporation or organization)

490 Lapp Road, Malvern, Pennsylvania (Address of principal executive offices) 26-1523233 (I.R.S. Employer Identification No.)

> 19355 (Zip Code)

(484) 395-2470

(Registrant's telephone number, including area code)

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

	of Each Class	Trading Symbol	Name of Exchange on Which Registered	
Common St	ock, par value \$0.01	REPH	Nasdaq Capital Market	
	Secu	urities registered pursuant to Section 12(g) of the	e Act:	
		None		
Indicate by check mark if the registr	ant is a well-known seasoned issuer, a	as defined in Rule 405 of the Securities Act. Yes 🗌 No		
Indicate by check mark if the registr	ant is not required to file reports purs	uant to Section 13 or Section 15(d) of the Act. Yes \Box	No 🗵	
-	0 1	quired to be filed by Section 13 or 15(d) of the Securities E en subject to such filing requirements for the past 90 days.	xchange Act of 1934 during the preceding 12 months (or for such Yes \boxtimes No \square	shorter
		ly every Interactive Data File required to be submitted purs quired to submit such files). Yes \boxtimes No \square	suant to Rule 405 of Regulation S-T (§232.405 of this chapter) du	ring the
		405 of Regulation S-K (§229.405) is not contained herein, a iis Form 10-K or any amendment to this Form 10-K. □	nd will not be contained, to the best of registrant's knowledge, in de	efinitive
		r, an accelerated filer, a non-accelerated filer, a smaller rep "and "emerging growth company in Rule 12b-2 of the Exchange	porting company, or an emerging growth company. See the defini ange Act.	tions of
Large accelerated filer			Accelerated filer	X
Non-accelerated filer			Smaller reporting company Emerging growth company	
If an emerging growth company, ind pursuant to Section 13(a) of the Exc.		has elected not to use the extended transition period for co	mplying with any new or revised financial accounting standards p	provided
Indicate by check mark whether the	registrant is a shell company (as defin	ned in Rule 12b-2 of the Exchange Act). Yes 🗆 No 🗵		
On the last business day of the mos affiliates of the registrant was \$195.		narter, the aggregate market value (based on the closing sale	e price of its common stock on that date) of the voting stock held	by non-
As of February 28, 2020, there were	23,401,633 shares of common stock	outstanding, par value \$0.01 per share.		

DOCUMENTS INCORPORATED BY REFERENCE

Part III of this Annual Report on Form 10-K incorporates certain information by reference from the registrant's proxy statement for the 2020 annual meeting of shareholders to be filed no later than 120 days after the end of the registrant's fiscal year ended December 31, 2019.

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FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K and the documents incorporated by reference herein contain forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, included in this Annual Report on Form 10-K or the documents incorporated by reference herein regarding our strategy, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management are forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "will," "would" "could," "should," "potential," "seek," "evaluate," "pursue," "continue," "design," "impact," "affect," "forecast," "target," "outlook," "initiative," "objective," "designed," "priorities," "goal," or the negative of such terms and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Such statements are based on assumptions and expectations that may not be realized and are inherently subject to risks, uncertainties and other factors, many of which cannot be predicted with accuracy and some of which might not even be anticipated.

The forward-looking statements in this Annual Report on Form 10-K and the documents incorporated herein by reference include, among other things, statements about:

- our estimates regarding expenses, future revenue, cash flow, capital requirements and timing and availability of and the need for additional financing;
- our ability to maintain our relationships, profitability and contracts with our key commercial partners;
- our ability to grow and diversify our business with new customers, including our ability to meet desired project outcomes with development customers;
- our ability to comply with the regulatory schemes applicable to our business and other regulatory developments in the United States and foreign countries;
- our ability to operate under increased leverage and associated lending covenants; to pay existing required interest and principal amortization payments when due; and/or to obtain acceptable refinancing alternatives;
- the performance of third-party suppliers upon which we depend for Active Pharmaceutical Ingredients, or APIs, excipients, capsules, reagents, etc., and other thirdparties involved with maintenance of our facilities and equipment;
- our ability to obtain and maintain patent protection for applicable products and defend our intellectual property rights against third-parties;
- pharmaceutical market forces that may impact our commercial customers success for products we produce;
- our ability to defend the securities class action lawsuit filed against us, or any future material litigation filed against us;
- our ability to recruit or retain key scientific, technical, business development, and management personnel and to retain our executive officers;
- our ability to comply with stringent U.S. and foreign government regulation in the manufacture of pharmaceutical products, including Good Manufacturing Practice, or cGMP, compliance and U.S. Drug Enforcement Agency, or DEA, compliance and other relevant regulatory authorities; and

We may not achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included in this Annual Report on Form 10-K, particularly under "Risk Factors," that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures, collaborations or investments we may make. You should read this Annual Report on Form 10-K and the documents that we incorporate by reference herein completely and with the understanding that our actual future results may be materially different from what we expect. We do not assume any obligation to update any forward-looking statements.

Solely for convenience, tradenames referred to in this Annual Report on Form 10-K appear without the ® symbol, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or that the applicable owner will not assert its rights, to these tradenames. All trademarks, service marks and tradenames included or incorporated by reference in this Annual Report on Form 10-K are the property of their respective owners.

Item 1. Business

Overview

We are a leading contract development and manufacturing organization, or CDMO, with integrated solutions for the development, formulation, regulatory support, manufacturing, and packaging of oral solid dose drug products. We leverage our formulation and development expertise to develop and manufacture pharmaceutical products using proprietary delivery technologies and know-how for commercial partners who commercialize or plan to commercialize these products. These collaborations result in revenue streams including manufacturing, royalties, profit sharing, and research and development, which support our continued operations. We operate a 97,000 square foot, DEA-licensed manufacturing facility in Gainesville, Georgia, as well as a 24,000 square foot development and high potency product facility in Gainesville, Georgia that we opened in October 2018. We currently develop and/or manufacture the following key products with our key commercial partners: Ritalin LA®, Focalin XR®, Verelan PM®, Verelan SR®, Verepamil PM, Verapamil SR and Zohydro ER®, as well as supporting development stage products.

Our manufacturing and development capabilities include formulation, product development from formulation through commercial manufacturing, and specialized capabilities for solid oral dosage forms, extended release and controlled substance manufacturing, as well as high potency development and manufacturing. In a typical collaboration, we work with our commercial partners to develop product candidates, or new formulations of existing product candidates, and may license certain intellectual property to such commercial partners. We also typically exclusively manufacture and supply clinical and commercial supplies of these proprietary products and product candidates.

Acute Care Spin-Off

In November 2019, our former Acute Care business was spun-out from us through our former wholly-owned subsidiary, Baudax Bio, Inc., or Baudax Bio, when we completed a special dividend distribution of all the outstanding shares of common stock of Baudax Bio to our shareholders. On November 21, 2019, the distribution date, each of our shareholders received one share of Baudax Bio's common stock, or the Distribution, for every two and one-half shares of our common stock held of record at the close of business on November 15, 2019, the record date for the Distribution. Additionally, we contributed \$19 million of cash to Baudax Bio in connection with the separation. As a result of the Distribution, Baudax Bio is now an independent public company whose shares of common stock are trading under the symbol "BXRX" on The Nasdaq Capital Market, or Nasdaq.

Our consolidated results of operations and financial position included in this Annual Report on Form 10-K reflect the financial results of Baudax Bio as a discontinued operation for all periods presented. For additional information on the spin-off of Baudax Bio please read Note 4, Discontinued Operations, to our consolidated financial statements included in this Annual Report on Form 10-K.

Our Strategy

The CDMO market is large and growing and is expected to continue to expand as outsourced penetration is seen due to biotechnology and pharmaceutical companies outsourcing more of their operations. These companies, which include our customers and prospective customers, generally prefer fewer, higher quality suppliers with specialized expertise in addressing their formulation and manufacturing challenges early in the development cycle. Our strategy for growth in this market includes:

- *Expand Existing Customer Relationships*. We maintain strong customer relationships with large pharmaceutical and biotechnology companies with established and stable pharmaceutical products. We plan to leverage these relationships for new business opportunities.
- Diversify Our Customer Base. We have taken, and continue to take, steps to diversify and expand our customer base. Beginning in 2018, we increased our focus
 on business development, hired subject matter experts and set up additional systems and processes in order to expand our offering of development-stage services to
 attract new customers. In 2019, we added 6 new development customers and expect to further expand our business with new customers in 2020.
- Invest in our Manufacturing Capabilities. We intend to continue to invest in our facilities and infrastructure to maximize our utilization and support our customers' development and commercial manufacturing requirements.
- Explore Acquisitions and Licensing. We may drive growth through the acquisition of businesses, products, product lines, technologies and capabilities.

Our Competitive Strengths

We believe that the strong relationships we have with our commercial partners result from of our competitive strengths. In particular:

- Our Operational Excellence. We maintain a commitment to continually improve productivity and customer service levels and maintain excellent quality and regulatory compliance systems.
- Focus on Specialized Markets. We participate in specialized markets where significant technical expertise provides a competitive advantage. This includes
 differentiated drug delivery, controlled substance and complex formulation. Our core expertise is modified release oral solid dosage form development and
 manufacturing and custom release profile development, including for DEA controlled substance products. We developed extended, controlled and sustained
 release mechanisms and other intellectual property for several current commercial products.
- Our Integrated Development and Manufacturing Facilities. Our early-stage development and high-potency business feeds clinical and commercial manufacturing opportunities to our manufacturing business.
- Our Customer-Centric, Consultative Approach. We are highly collaborative throughout the product lifecycle, guiding our commercial partners through the
 development process towards commercialization, including support and guidance on regulatory matters and CMC regulatory document preparation. In particular,
 we provide differentiated capabilities across a broad array of services that support the ability to serve our commercial partners through the entire development
 spectrum.

Services

Manufacturing

Our 97,000 square foot manufacturing facility is located in Gainesville, Georgia. We have a full range of manufacturing capabilities, from scale-up services to commercial manufacture. Our manufacturing platform includes:

- process development and scale-up;
- prototype, pilot and commercial manufacturing;
- primary, secondary and tertiary packaging; and
- analytical method development, validation and quality control with physical testing and analytical method capabilities.

Development and High Potency

Our 24,000 square foot development and high potency facility is also located in Gainesville, Georgia. Our development team focuses on:

- formulation, system design and engineering;
- analytical method development and validations;
- stability programs;
- prototyping and pilot manufacturing;
- early stage quality assurance and quality control;
- nonclinical and early stage clinical development; and
- pre-commercial manufacturing.

Early-stage coordination with customers at our development and high-potency site helps assure streamlined technology tansfer for final scale up and manufacturing at our commercial manufacturing site.

Our Commercial Partners

We are party to agreements with each of our commercial partners governing the development, formulation and/or supply services we provide, as well as any applicable intellectual property licenses. Each commercial partner generally remains responsible for distributing, marketing and promoting their respective products. These collaborations result in revenue streams including royalties and profit sharing. We are dependent on a small number of commercial partners, with our four largest customers (Novartis Pharma AG, or Novartis, Teva Pharmaceutical Industries, Inc., or Teva, Currax Pharmaceutical LLC or Currax and Lannett Company, Inc., or Lannett) having generated 96% of our revenues for the twelve months ended December 31, 2019, of which, Teva, Lannett and Novartis generated 42%, 25% and 24% of our of our revenue, respectively.

The table below details the key products developed and/or manufactured with our key commercial partners:

Product	Indication	Territory	Revenue	Commercial	Agreement term
			Source	Partner	
Ritalin LA®	Attention Deficit Hyperactivity Disorder	Worldwide	Manufacturing	Novartis Pharma AG	Through December 31, 2023
Focalin XR®	Attention Deficit Hyperactivity Disorder	Worldwide, except Canada	Manufacturing	Novartis Pharma AG	Through December 31, 2023
Verelan PM®, SR & Verapamil PM	Hypertension	United States	Profit Sharing / Manufacturing	Lannett Company, Inc.	Through December 31, 2021
Verapamil SR	Hypertension	United States	Profit Sharing / Manufacturing		Through December 31, 2024
Zohydro ER®	Severe Pain	United States	Royalty / Manufacturing	Currax Pharmaceutical LLC	Through March 2029

Lannett

We are party to a License and Supply Agreement with Kremers Urban Pharmaceutical, Inc., a subsidiary of Lannett, or the Lannett Agreement, pursuant to which we supply Verelan PM and SR and Verapamil PM to Lannett. We own the NDA related to Verelan and license commercialization rights to Lannett under the Lannett Agreement. The Lannett Agreement expires on December 31, 2021 and will renew thereafter for successive two-year periods. Under the Lannett Agreement, Lannett pays us a share of profits on sales of Verelan PM and SR and Verapamil PM.

Teva

We are party to a License and Supply Agreement with Watson Laboratories, Inc., a subsidiary of Teva, or the Teva Agreement, pursuant to which we are the exclusive supplier of Verapamil SR to Teva. We own the NDA for Verapamil SR and, pursuant to the Teva Agreement, have granted Teva an exclusive license to commercialize and sell Verapamil SR in the United States. The Teva Agreement expires on December 31, 2024, after which it will renew for additional one-year periods unless terminated by either party. Under the Teva Agreement, Teva pays us a share of profits on sales of Verapamil SR.

Novartis

In February 2019 we entered into a Manufacturing and Supply Agreement with Novartis, or the Novartis Agreement, pursuant to which we continued our long-standing relationship with Novartis as the exclusive global supplier to Novartis of Ritalin LA and Focalin XR capsules until December 31, 2023. The Novartis Agreement will renew automatically thereafter for successive one-year periods unless terminated by either party at least 24 months prior to December 31, 2023, or any subsequent one-year term

thereafter. Novartis may terminate the Agreement immediately if (i) any governmental regulatory authority prevents Novartis from supplying the active pharmaceutical ingredients in the products and/or exporting, purchasing or selling the products; (ii) any product cannot be reasonably commercialized for medical, scientific or legal reasons; or (iii) we fail to comply with certain health, safety and environmental protection requirements. After the December 31, 2023, Novartis may terminate the Novartis Agreement upon 12 months' written notice in the event of any sale or divestment by us of our business or assets relating to the products.

Permits and Regulatory Approvals

We hold various licenses and registrations for our manufacturing activities. The primary licenses and registrations held are FDA Registrations of Drug Establishments and DEA Controlled Substance Registration. Due to certain U.S. state law requirements, we also hold certain state licenses for distribution activities throughout certain states. We also hold cGMP certifications for EU importation of products made in Gainesville for sale in the EU and an ANVISA certification for sale in Brazil.

In certain of our commercial partnerships, our commercial partner is the product authorization holder for products that have been developed on behalf of the commercial partner. In other commercial partnerships, we are the authorization holder. When our commercial partner holds the relevant authorization from the FDA or other national regulator, we support this authorization by furnishing a letter of reference to the Drug Master File, or the chemistry, manufacturing and related data to the relevant regulator or sponsor to provide adequate manufacturing support in respect of the product. We generally update this information annually with the relevant regulator.

We hold the approved NDAs for Verelan SR and Veralan PM, which we license to Lannett Company, Inc. and Teva Pharmaceutical Industries, Inc., respectively. Verapamil SR and Verapamil PM are authorized generics.

Environmental and Safety Matters

Certain products manufactured by us involve the use, storage and transportation of toxic or hazardous material. Our operation are subject to extensive laws and regulations relating to the storage, handling, emissions, transportation and discharge of materials into the environment and the maintenance of safe working conditions. We maintain environmental and industrial safety and health compliance programs and training at our facilities.

Prevailing legislation tend to hold companies primarily responsible for the proper disposal of their waste even after transfer to third party waste disposal facilities. Other future developments, such as increasingly strict environmental, health and safety laws and regulations, and enforcement policies, could result in substantial costs and liabilities to us and could subject the handling, manufacture, use, reuse or disposal of substances or pollutants at our facilities to more rigorous scrutiny than at present.

Intellectual Property

We own several issued patents in the United States and several foreign patent applications for abuse resistant pharmaceutical compositions and methods of use related to Zohydro ER®, which provide patent protection through 2034, subject to any extensions or disclaimers. Although certain patents may have expired or may expire in the future, we believe there are other barriers to entry for our commercial partners and competition, including ownership of regulatory filings, NDAs, abbreviated new drug applications or ANDAs, and drug master files or DMF's, manufacturing trade secrets, proprietary dosage strengths, pricing limitations in various geographies, costs to revalidate with another supplier, maturity and life-cycle stage of products. We have acquired and developed and continue to acquire and develop knowledge and expertise and trade secrets in the provision of formulation, process development and manufacturing services. We intend to rely on a combination of patents and trade secrets, as well as confidentiality agreements and license agreements, to protect our proprietary know-how.

Competition

The pharmaceutical and biotechnology industries are intensely competitive and subject to rapid and significant technological change. Our current and future competitors include pharmaceutical, biotechnology and specialty pharmaceutical companies. Many of our competitors have greater financial and other resources than we have, such as more commercial resources, larger research and development staffs and more extensive marketing and manufacturing organizations.

We compete with contract pharmaceutical formulation and manufacturing companies such as Alcami Corporation, Cambrex Corporation, Mylan N.V., Catalent, Inc., Patheon, a part of Thermo Fisher Scientific, Mikart, LLC, Quotient Sciences, and other formulation, development and manufacture-related service providers.

Government Regulation

Governmental authorities in the United States at the federal, state and local level, and the equivalent regulatory authorities in other countries, extensively regulate the research, development, testing, manufacture, quality control, approval, labeling, packaging, storage, record-keeping, promotion, distribution, marketing, export and import of prescription drugs, such as those we are developing and manufacturing. Any drug products developed or manufactured by us are subject to pervasive and continuing regulation by the FDA, including compliance with Good Manufacturing Practices, or GMP, which impose procedural and documentation requirements. The FDA or other regulatory agencies can delay approval of a drug if our manufacturing facilities are not able to demonstrate compliance with GMPs, pass other aspects of pre-approval inspections (i.e., compliance with filed submissions) or properly scale up to produce commercial supplies. Drug manufacturers and their subcontractors are required to register their establishments with the FDA and state agencies, and are subject to periodic announced and unannounced inspections by the FDA and state agencies for compliance with GMP and other regulations. In addition, changes to the manufacturing process are strictly regulated, and, depending on the significance of the change, may require prior FDA approval before being implemented. FDA regulations also require investigation and correction of any deviations from GMP and impose reporting and documentation requirements. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain compliance with GMPs and other aspects of regulatory compliance. Failure to comply with applicable requirements may result in restrictions on a product, manufacturer or holder of an approved NDA, including withdrawal of product approval, recall or seizure of the product or other voluntary, FDA-initiated or judicial action that could delay or prohibit further operations.

The Drug Supply Chain Security Act, or DSCSA, added new sections to the Federal Food, Drug & Cosmetic Act, or FD&C, that require manufacturers, repackagers, wholesale distributors, dispensers, and third-party logistics providers to take steps to identify and trace certain prescription drugs to protect against the threats of counterfeit, stolen, contaminated, or otherwise harmful drugs in the supply chain. Among other mandates, the DSCSA requires manufacturers and repackagers to affix or imprint a unique product identifier (comprised of a standardized numerical identifier, lot number, and expiration date of the product) on certain prescription drug packages in both a human-readable and on a machine-readable data carrier. The standardized numerical identifier is comprised of the product's corresponding National Drug Code combined with a unique alphanumeric serial number. A drug product is misbranded if it does not bear the product identifier as required by Section 582 of the FD&C. Section 582 also established several requirements relating to the verification of product identifiers.

Certain products that we manufacture are regulated as "controlled substances" as defined in the Controlled Substances Act of 1970, or CSA, which establishes registration, security, recordkeeping, reporting, storage, distribution and other requirements administered and enforced by the United States Drug Enforcement Agency, or DEA. The DEA is concerned with the control and handling of controlled substances, and with the equipment and raw materials used in their manufacture and packaging, in order to prevent loss and diversion into illicit channels of commerce. Annual registration is required for any facility that manufactures, distributes, dispenses, imports or exports any controlled substance. The registration is specific to the particular location, activity and controlled substance schedule.

The DEA regulates controlled substances by controlling them in five schedules. Schedule I and II controlled substances have a high potential for abuse, whereas Schedule III-V controlled substances have relatively decreasing potential for abuse. Therefore, the DEA imposes more stringent controls on Schedule I and II substances than Schedule III-V substances, including stricter security controls, quotas, and increased recordkeeping and reporting requirements. Certain of the products we manufacture and/or develop are regulated as Schedule II controlled substances. The DEA establishes annually an aggregate quota for how much certain controlled substances that we manufacture may be produced in total in the United States, based on the DEA's estimate of the quantity needed to meet legitimate scientific and medicinal needs. This limited aggregate amount that the DEA allows to be produced in the United States each year is allocated among individual companies, who must submit applications annually to the DEA for individual production and procurement quotas. We must receive an annual quota from the DEA in order to produce any Schedule II substance. The DEA may adjust aggregate production quotas and individual production and procurement quotas from time to time during the year, although the DEA has substantial discretion in whether or not to make such adjustments. In April 2018, the DEA proposed new guidelines aimed at strengthening the process for setting controls over diversion of controlled substances and making other improvements in the quota managements regulatory system for the production, manufacturing and procurement of controlled substances. Following a public comment period, the DEA published the final guidelines, which were substantially similar to the proposed guidelines, in July 2018. For 2019, the DEA proposed decreased manufacturing quotas for the six most frequently misused opioids, including hydrocodone, which we use in the manufacture of certain products, by an average of 10% as compared to the 2018 quotas. The DEA has proposed further decreasing manufacturing quotas in 2020 for five of the six opioids, including hydrocodone, by an average of 28%. Together with reductions in morphine, this is a 53% decrease since 2016. In October 2019, the DEA proposed additional regulations to amend the manner in which the agency grants quotas to manufacturers. The proposed regulations will establish use-specific quotas, including commercial sales, product development, transfer, replacement, and packaging. To decrease the risk of diversion and increase accountability, inventory allowances will be reduced, and procurement quota certifications will be required.

The DEA requires facilities that manufacture controlled substances to adhere to certain security requirements. Security requirements vary by controlled substance schedule, with the most stringent requirements applying to Schedule I and Schedule II substances. Required security measures include background checks on employees and physical control of inventory through measures such as cages, surveillance cameras and inventory reconciliations. Records must be maintained for the handling of all controlled substances and periodic reports must be made to the DEA, for example, distribution, acquisition, and inventory reports for Schedule I and II controlled substances. Schedule III substances that are narcotics and other designated substances. Reports must also be made for thefts or losses of any controlled substance and suspicious orders. In addition, special authorization and notification requirements apply to imports and exports.

The DEA requires drug manufacturers to design and implement a system that identifies suspicious orders of controlled substances, such as those of unusual size, those that deviate substantially from a normal pattern and those of unusual frequency, prior to completion of the sale. A compliant suspicious order monitoring, or SOM, system includes well-defined due diligence, "know your customer" efforts and order monitoring.

To enforce these requirements, the DEA conducts periodic inspections of registered establishments that handle controlled substances. Individual states also independently regulate controlled substances. We are subject to state regulation of distribution for these products. Failure to maintain compliance with applicable requirements, particularly where noncompliance results in loss or diversion, can result in enforcement action that could have a material adverse effect on our business, results of operations and financial condition. The DEA may seek civil penalties, refuse to renew necessary registrations or initiate proceedings to revoke those registrations, or take other enforcement action. In certain circumstances, violations could result in criminal prosecution.

In addition to DEA regulations, the U.S. government and state legislatures have enacted legislation and regulations intended to fight the opioid epidemic. In February 2016, the FDA released an action plan to address the opioid epidemic, which is part of a broader initiative led by the Department of Health and Human Services, which includes the release of a new Guideline for Prescribing Opioids for Chronic Pain, FDA's requirement of enhanced warnings and safety labeling, and institution of a class-wide REMs as a condition of approval. Further, the Comprehensive Addiction and Recovery Act, or CARA, was passed in 2016. CARA provides resources to improve state monitoring of controlled substances, including opioids. A Senate bill introduced in February 2018, known as CARA 2.0, would further limit initial prescriptions for opioids to three days, while exempting initial prescriptions for chronic care, cancer care, hospice or end of life care, and palliative care. CARA 2.0 would also increase civil and criminal penalties for opioid manufacturers that fail to report suspicious orders for opioids or fail to maintain effective controls against diversion of opioids. More recently, the Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment for Patients and Communities Act, or Support Act, has been enacted. It provides for further regulation as funding for research and development of non-addictive painkillers. State legislatures have followed in the footsteps of the federal government in passing similar laws intended to limit prescription sales and quantities as well as increase the ability to monitor and regulate the manufacture and sale of opioids.

Corporate Information

We were incorporated under the laws of the Commonwealth of Pennsylvania in November 2007. Our principal executive offices are located at 490 Lapp Road, Malvern, PA 19355 and our telephone number is (484) 395-2470.

Employees

As of December 31, 2019 we had 215 employees including 2 part-time employees. None of our employees are covered by collective bargaining agreements, and we consider relations with our employees to be good.

Available Information

Our website address is www.recrogainesville.com. Our Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, any amendments to those reports, proxy and registration statements filed or furnished with the Securities and Exchange Commission, or SEC, are available free of charge through our website. We make these materials available through our website as soon as reasonably practicable after we electronically file such materials with, or furnish such materials to, the SEC. The reports filed with the SEC by our executive officers and directors pursuant to Section 16 under the Exchange Act are also made available, free of charge on our website, as soon as reasonably practicable after copies of those filings are provided to us by those persons. These materials can be accessed through the "Investor Relations" section of our website. The information contained in, or that can be accessed through, our website is not part of this Report.

Item 1A. Risk Factors

The following risk factors and other information included in this Annual Report on Form 10-K should be carefully considered. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we presently deem less significant may also impair our business operations. Please see page 3 of this Annual Report on Form 10-K for a discussion of some of the forward-looking statements that are qualified by these risk factors. If any of the following risks occur, our business, financial condition, results of operations and future growth prospects could be materially and adversely affected. All references and risks related to the launch, commercialization or sale of any of our product candidates are predicated on such product candidates receiving the requisite marketing and regulatory approval in the United States and applicable foreign jurisdictions.

Risks Related to Our Business and Industry

Our revenues are dependent on a small number of commercial partners, and the loss of any one of these partners, or a decline in their orders, may adversely affect our business.

We are dependent on a small number of commercial partners, with our four largest customers (Novartis Pharma AG, or Novartis, Teva Pharmaceutical Industries, Inc., or Teva, Currax, and Lannett Company, Inc.) having generated 96% of our revenues for the twelve months ended December 31, 2019, of which Teva generated 42% of our revenue, Lannett generated 25% of our revenue and Novartis generated 24% of our revenue. Our agreement with Teva expires on December 31, 2024, and our agreement with Novartis expires on December 31, 2023. Our other customer contracts range from three to five years. If any one or more of these commercial partners fails to renew their contract, faces increasing or new competition in their market, adjusts pricing, significantly reduces their purchasing volume or experiences financial difficulties such as bankruptcy, our revenues could be adversely affected. Furthermore, the acquisition of or change in strategy by one of our customers could impact projects we are currently working or planning to work in the future. We are actively seeking to develop new customer relationships; but there can be no guarantee that we will be able to expand our customer base. New business may not be secured at the levels we anticipate, or at all.

Our royalty, profit sharing and manufacturing revenues also depend on the ability of our commercial partners to effectively market and sell their products to their customers. A commercial partner may choose to devote its efforts to its other products or reduce or fail to devote the necessary resources to provide effective sales and marketing support for the products we manufacture and supply. Our commercial partners face competition from other pharmaceutical companies for sales of products to end users. Competition from sellers of generic drugs is a major challenge for our commercial partners, and the loss or expiration of intellectual property rights for the products we manufacture can have a significant adverse effect on their sales volume and price. Two of our partners, Currax with respect to Zohydro and Novartis with respect to Ritalin, expect to compete in the near future with generic entrants with respect to the products we manufacture for them, which could impact the sales volume or pricing of those products and our revenues. In addition, as pharmaceutical product pricing faces scrutiny by governments, legislative bodies and enforcement agencies, our commercial partners may lower their prices or cancellation of orders from our commercial partners could adversely affect our profit-sharing revenues. These pricing changes and any significant reduction, delay or cancellation of orders from our commercial partners could adversely affect our revenues.

Our and our customers' failure to receive or maintain regulatory approval for product candidates or products could negatively impact our revenue and profitability.

Our business materially depends upon the regulatory approval of the products we manufacture. As such, if we or our customers experience a delay in, or failure to receive, approval for any of their product candidates or fail to maintain regulatory approval of products, our revenue and profitability could be adversely affected. For example, a customer preparing for commercial launch scale-up received a complete response letter from the FDA and, as a result, cancelled their anticipated commercial launch orders for 2020, which impacted our anticipated revenue. Additionally, if the FDA or a comparable foreign regulatory authority does not approve of our facilities for the manufacture of a customer product or if it withdraws such approval in the future, our customers may choose to identify alternative manufacturing facilities and/or relationships, which could significantly impact our ability to expand our capacity and capabilities.



We depend on spending and demand from our customers for our contract manufacturing and development services and any reduction in spending or demand could have a material adverse effect on our business.

The amount that our customers spend on the development and manufacture of their products or product candidates, particularly the amount our customers choose to spend on outsourcing these services to us, substantially impacts our revenue and profitability. The outcomes of our customers' research, development and marketing also significantly influence the amount that our customers choose to spend on our services and offerings. Our customers determine the amounts that they will spend on our services based upon, among other things, the clinical and market success of their products, available resources, access to capital and their need to develop new products, which, in turn, depend upon a number of other factors, including their competitors' research, development and product initiatives and the anticipated market for any new products, as well as clinical and reimbursement scenarios for specific products and therapeutic areas. Further, increasing consolidation in the pharmaceutical industry may impact such spending, particularly in the event that any of our customers choose to develop or acquire integrated manufacturing operations. Any reduction in customer spending on development and related services as a result of these and other factors could have a material adverse effect on our business, results of operations and financial condition.

Failure to obtain manufacturing components, supplies and related materials from third-party manufacturers could affect our ability to manufacture and deliver our products.

We rely on third-party manufacturers to supply many of our manufacturing components, supplies and related materials, which in some instances are supplied from a single source. Prolonged disruptions in the supply of any of our key manufacturing components, supplies and related materials, difficulty implementing replacement materials or new sources of supply, or a significant increase in the prices of manufacturing components, supplies and related materials could have a material adverse effect on our operating results, financial condition or cash flows. In particular, manufacturing problems may occur with these suppliers, and if a supplier provides us with manufacturing components, supplies and related materials or supplies in a timely manner, we may have limited ability to find appropriate substitutes or otherwise meet required specifications and deadlines. Moreover, we could experience inventory shortages if we are required to use an alternative supplier on short notice, which also could lead to manufacturing components, supplies and related materials being purchased on less favorable terms than we have with our regular suppliers. If such problems occur, we may not be able to manufacture our products profitably or on time, which could harm our reputation and have a material adverse effect on our business.

Our manufacturing services are highly complex, and if we are unable to provide quality and timely services to our customers, our business could suffer.

The manufacturing services we offer are highly complex, due in part to strict regulatory requirements. A failure of our quality control systems in our facilities could cause problems to arise in connection with facility operations for a variety of reasons, including equipment malfunction, viral contamination, failure to follow specific manufacturing instructions, protocols and standard operating procedures, problems with raw materials or environmental factors. Such problems could affect production of a single manufacturing run or a series of runs, requiring the destruction of products, or could halt manufacturing operations altogether. In addition, our failure to meet required quality standards may result in our failure to timely deliver products to our customers, which in turn could damage our reputation for quality and service. Any such incident could, among other things, lead to increased costs, lost revenue, reimbursement to customers for lost drug substance, damage to and possibly termination of existing customer relationships, time and expense spent investigating the cause and, depending on the cause, similar losses with respect to other manufacturing runs. With respect to our commercial manufacturing, if problems are not discovered before the product is released to the market, we may be subject to regulatory actions, including product recalls, such sizes, sinjunctions to halt manufacture and distribution, restrictions on our operations, civil sanctions, including monetary sanctions, and criminal actions. In addition, such issues could subject us to litigation, the cost of which could be significant.

The consumers of the products we manufacture for our customers may significantly influence our business, results of operations and financial condition.

We depend on, and have no control over, consumer demand for the products we manufacture for our customers. Consumer demand for our customers' products could be adversely affected by, among other things, delays in health regulatory approval, the inability of our customers to demonstrate the efficacy and safety of their products, the loss of patent and other intellectual property rights protection, the emergence of competing or alternative products, including generic drugs, the degree to which private and government payment subsidies for a particular product offset the cost to consumers and changes in the marketing strategies for such products. If

the products we manufacture for our customers do not gain market acceptance, our revenues and profitability may be adversely affected.

We believe that continued changes to the healthcare industry, including ongoing healthcare reform, adverse changes in government or private funding of healthcare products and services, legislation or regulations governing the privacy of patient information or patient access to care, or the delivery, pricing or reimbursement of pharmaceuticals and healthcare services or mandated benefits, may cause healthcare industry participants to purchase fewer services from us or influence the price that others are willing to pay for our services. Changes in the healthcare industry's pricing, selling, inventory, distribution or supply policies or practices could also significantly reduce our revenue and profitability.

Our operating results may fluctuate significantly.

Our operating results may be subject to quarterly and annual fluctuations. Our operating results will be affected by numerous factors, including: • fluctuations in the revenues, including the loss of a major customer or product;

- the timing of purchasing order patterns, safety stock methodology and habits of our commercial partners;
- unsuccessful execution, postponement or cancellation of anticipated formulation, development and manufacturing services related to customer projects,
- · variations in the level of expenses related to our production volumes and development programs;
- any intellectual property infringement lawsuit in which we may become involved;
- CDMO or pharmaceutical competitors that introduce new products or take increased positions that may emerge and reduce market share for our existing customer/partner products;
- our execution of any additional collaborative, licensing or similar arrangements, and the timing of payments we may make or receive under these arrangements;
- our acquisition, divestiture, spin-off or in-licensing of new technologies or assets.

Due to the various factors mentioned above, and others, the results of any prior quarterly period should not be relied upon as an indication of our future operating performance. If our quarterly operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially.

We have a history of operating losses. If we cannot maintain profitability and secure additional business, we may have to raise additional capital.

Prior to the spin-out of our Acute care business in November 2019, we had focused primarily on developing proprietary product candidates through our Acute care business, and incurred significant losses of approximately \$18.6 million and \$79.7 million for the years ended December 31, 2019 and 2018, respectively. As of December 31, 2019, we had an accumulated deficit of \$206.9. We have financed our operations through the sale of debt and equity securities, term loans made under our previous and existing credit facilities, including our current \$125.0 million credit facility with Athyrium Opportunities III Acquisition LP, or Athyrium, and operating revenue. We achieved operating profitability for the first time in the third quarter of 2019 and we generated operating profitability from continuing operations for each of the years in the three year period ended December 31, 2019, subsequent to our spin-off of our acute care business, but we cannot provide assurance that we will remain profitable in the future. Although it is difficult to forecast all of our future liquidity requirements, we believe that our cash and cash equivalents on hand combined with our projected cash receipts from services generated under our customer contracts will be sufficient to fund our operations beyond one year after the date our financial statements are issued. In addition, in the event a customer timely cancels its commitments prior to our initiation of manufacturing services, we may be required to refund some or all of the advance payments made to us under those canceled commitments, which would have a negative impact on our liquidity and future revenue.

In the event we are unable to maintain sufficient business to support our current operations, we may need to raise additional capital in the future. There can be no assurance that equity financing will be available on acceptable terms or at all. Our ability to raise additional capital in the equity markets to fund our future operations is dependent on a number of factors, including, but not limited to, the market demand for our common stock. The market demand or liquidity of our common stock is subject to a number of risks and uncertainties, including but not limited to, our financial results and economic and market conditions. In addition, even if we are able to raise additional capital, it may not be at a price or on terms that are favorable to us.

We have incurred significant indebtedness, which could adversely affect our business.

As of December 31, 2019, we had an outstanding balance under our credit agreement with Athyrium of \$125 million. Our indebtedness could have important consequences to our shareholders. For example, it:

- increases our vulnerability to adverse general economic or industry conditions;
- · limits our flexibility in planning for, or reacting to, changes in our business or the industries in which we operate;
- reduces proceeds we may receive as a result of any sale;
- makes us more vulnerable to increases in interest rates, as borrowings under our credit agreement with Athyrium are at variable rates;
- · limits our ability to obtain additional financing or refinancing in the future for working capital or other purposes; and
- places us at a competitive disadvantage compared to our competitors that have less indebtedness.

Any of the above-listed factors could materially adversely affect our business, financial condition, results of operations and cash flows. Our credit agreement with Athyrium also contains certain financial and other covenants, including a minimum liquidity requirement and maximum leverage ratios and includes limitations on, among other things, additional indebtedness, paying dividends in certain circumstances, acquisitions and certain investments. The credit agreement provides for certain mandatory prepayment events, including with respect to the proceeds of asset sales, extraordinary receipts, debt issuances and other specified events, based on the terms of the credit agreement with Athyrium. Any failure to comply with the terms, covenants and conditions of the credit agreement may limit our ability to draw upon additional tranches of term loans and may result in an event of default under such agreement, which could have a material adverse effect on our business, financial condition and results of operation.

We operate in a highly competitive market and competition may adversely affect our business.

We operate in a market that is highly competitive. Our competition in the contract manufacturing market includes full-service contract manufacturers and large pharmaceutical companies offering third-party manufacturing services to fill their excess capacity. One of our competitors in the production of verapamil has faced shortage and supply issues in recent years and our sales of verapamil have increased as a result; however, that competitor could return to the manufacturing market for verapamil at any time. If they do we may lose business or face price pressure as a result. We may also compete with the internal operations of those pharmaceutical companies that choose to source their product offerings internally. In addition, most of our competitors may have substantially greater financial, marketing, technical or other resources than we do. Moreover, additional competition may emerge, particularly in lower-cost jurisdictions such as India and China, which could, among other things, result in a decrease in the fees paid for our services, which may adversely affect our results of operations and financial condition.

Our business, financial condition, and results of operations are subject to risks arising from the international scope of our manufacturing and supply relationships.

Some of our customers source raw materials outside the United States. As such, we are subject to risks associated with such international manufacturing relationships, including:

- unexpected changes in regulatory requirements;
- problems related to markets with different cultural biases or political systems;

- longer payment cycles and shipping lead-times;
- increased risk relating to the transport of products internationally, including damage to our customers' API, shipment delays relating to the import or export of our products or the delivery of products by means of additional third-party vendors;
- · difficulties importing or exporting supplies or products;
- unforeseen global instability, including political instability or instability from an outbreak of pandemic or contagious disease (including, for example, the recent coronavirus outbreak);
- · compliance with the U.S. Foreign Corrupt Practices Act and other laws and regulations governing international trade;
- · changes to U.S. and foreign trade policies, including the enactment of tariffs on goods imported into the United States; and
- imposition of domestic and international customs and tariffs, withholding or other taxes, including any value added taxes.

Additionally, we are subject to periodic reviews and audits by governmental authorities responsible for administering import/export regulations. To the extent that we are unable to successfully defend against an audit or review, we may be required to pay assessments, penalties, and increased duties on products imported into the United States.

Issues with product quality could have a material adverse effect upon our business, subject us to regulatory actions and cause a loss of customer confidence in us or our products.

Our success depends upon the quality of our products. Quality management plays an essential role in meeting customer requirements, preventing defects, improving our customers product candidates and services and assuring the safety and efficacy of their product candidates. Our future success depends on our ability to maintain and continuously improve our quality management program. A quality or safety issue may result in adverse inspection reports, warning letters, product recalls or seizures, monetary sanctions, injunctions to halt manufacture and distribution of products, civil or criminal sanctions, costly litigation, refusal of a government to grant approvals and licenses, restrictions on operations or withdrawal of existing approvals and licenses. An inability to address a quality or safety issue in an effective and timely manner may also cause negative publicity, a loss of customer confidence in us or our future products, which may result in difficulty in successfully launching product candidate s and the loss of sales, which could have a material adverse effect on our business, financial condition, and results of operations.

Our development and formulation services projects are typically for a shorter term than our manufacturing projects, and any failure by us to maintain an adequate volume of development and formulation services projects, including due to lower than expected success rates of the products for which we provide services, could have a material adverse effect on our business, results of operations and financial condition.

Our pharmaceutical development services business contracts are generally shorter in term than our manufacturing contracts and typically require us to provide development services within a designated scope. Since our development and formulation services focus on products that are still in developmental stages, their viability depends on the ability of such products to reach their respective subsequent development phases. In many cases, such products do not reach subsequent development phases and, as a result, the profitability of the related pharmaceutical development service project may be limited. Even if a customer wishes to proceed with a project, the product we are developing on such customer's behalf may fail to receive necessary regulatory approval or may have its development hindered by other factors, such as the development of a competing product.

If we are unable to continue to or timely obtain new projects from existing and new customers, our development and formulation services business could be adversely affected. Furthermore, although our development and formulation services business may act as a pipeline for our manufacturing services business, we cannot predict the conversion rate of our development and formulation services projects to commercial manufacturing services projects, or how successful we will be in winning new projects that lead to a viable



product. As such, an increase in the turnover rate of our development and formulation services projects may not benefit our manufacturing services business at a later time.

In addition, our backlog is subject to a number of risks and uncertainties, including risk that a customer timely cancels its commitments, the risk that a customer may experience delays in its program(s) or otherwise, which could result in the postponement or cancellation of anticipated formulation, development and manufacturing services revenue. There is risk that our business development efforts may not materialize as quickly as we have projected, that we may not successfully execute on all customer projects, any of which could have a negative impact on our liquidity, reported backlog and future revenue. Further, the discontinuation of a project as a result of our failure to satisfy a customer's requirements may also affect our ability to obtain future projects from such customer, as well as from new customers. Any failure by us to maintain a high volume of development and formulation services projects could have a material adverse effect on our business, results of operations and financial condition.

If we fail to meet the stringent requirements of governmental regulation in the manufacture of pharmaceutical products, we could incur substantial costs and a reduction in revenues.

We are required to maintain compliance with cGMP, and our manufacturing facilities are subject to inspections by the FDA and other global regulators to confirm such compliance. Changes of suppliers or modifications of methods of manufacturing may require amending our application(s) to the FDA and acceptance of the change by the FDA prior to release of our manufactured products. Because we produce multiple products at our manufacturing facilities, there are increased risks associated with cGMP compliance. On August 12, 2019 following a six-day pre-approval inspection of our primary manufacturing facility, the FDA issued a Form 483 containing two observations relating to a documentation issue and incomplete investigation. We have promptly responded to these observations as a part of our ongoing obligations under the FDA's quality system regulation and have implemented corrective and preventative actions to ensure these type of observations do not occur in the future. While we remain committed to continuous improvement and strengthening our quality system and ensuring that all aspects of the system are in full compliance, we can provide no assurance that we will not encounter future inspections resulting in observations not acceptable by the FDA.

Our inability to demonstrate ongoing cGMP compliance could require us to engage in additional lengthy and expensive remediation efforts, withdraw or recall products and/or interrupt commercial supply of any products. Any delay, interruption or other issue that arises in the manufacture, fill/finish, packaging, or storage of any drug product as a result of a failure of our facilities to pass any regulatory agency inspection or maintain cGMP compliance could significantly impair our relationships with our commercial partners, which would substantially harm our business, prospects, operating results and financial condition. Any ongoing or additional findings of non-compliance could also increase our costs and cause us to lose revenue from manufactured products, which could be seriously detrimental to our business, prospects, operating results and financial condition.

Additionally, our manufacturing activities are subject to the Controlled Substances Act and the regulations of the DEA. Accordingly, we must adhere to a number of requirements with respect to controlled substances, including registration, recordkeeping and reporting requirements; labeling and packaging requirements; security controls, procurement and manufacturing quotas; and certain restrictions on refills. Failure to maintain compliance with applicable requirements can result in an enforcement action that could have a material adverse effect on our business, financial condition, operating results and cash flows. The DEA may seek civil penalties, refuse to renew necessary registrations or initiate proceedings to revoke those registrations. In certain circumstances, violations could result in criminal proceedings.

Manufacturers of drug products and their facilities are subject to payment of substantial user fees and continual review and periodic inspections by the FDA and other regulatory authorities, including equivalent regulatory authorities in other countries, for compliance with cGMP regulations and adherence to commitments made in the NDA or the application for marketing authorization. If we, or a regulatory authority, discover previously unknown problems with a product, such as AEs of unanticipated severity or frequency, or problems with a facility where the product is manufactured, a regulatory authority may impose restrictions relative to that product or the manufacturing facility, including requiring recall or withdrawal o f the product from the market, suspension of manufacturing, or other FDA action or other action by the equivalent regulatory authorities in other countries.

We manufacture opioid products, which are subject to additional regulation by state and federal law enforcement and other regulatory agencies.

We manufacture opioid products, including Zohydro ER, an extended-release opioid treatment, containing hydrocodone. The U.S. government and state legislatures have prioritized combatting the growing misuse and addiction to opioids such as hydrocodone and



have enacted legislation and regulations as well as other measures intended to fight the opioid epidemic. Addressing prescription drug abuse is a priority for the current U.S. administration and the FDA and is part of a broader initiative led by the Department of Health and Human Services. Overall, there is greater scrutiny of entities involved in the manufacture, sale and distribution of opioids. These initiatives, existing regulations, and any negative publicity related to opioids may have a material impact on our business and our ability to manufacture opioid products.

Opioids are controlled substance regulated by the DEA. The amount of Schedule II substances that can be obtained is limited by the CSA and DEA regulations. In November 2017, the DEA reduced the amount of almost every Schedule II opiate and opioid medication that may be manufactured in the U.S. in calendar year 2018 by 20%. For 2019, the DEA proposed decreased manufacturing quotas for the six most frequently misused opioids, including oxy codone, by an average of 10% as compared to the 2018 quotas; and DEA has proposed further decreasing manufacturing quotas in 2020 for five of the six opioids (fentanyl, hydrocodone, hydromorphone, oxycodone, oxymorphone), by an average of 28%. Together with reductions in morphine, this is a 53% decrease since 2016. In October 2019, the DEA proposed additional regulations to amend the manner in which the agency grants quotas to manufacturers. The proposed regulations will establish use-specific quotas, including commercial sales, product development, transfer, replacement, and packaging. To decrease the risk of diversion and increase accountability, inventory allowances will be reduced, and procurement quota certifications will be required. If limited supply of opioids impacts demand for products of our partners, our revenues may be adversely impacted. In addition to DEA regulations, the U.S. government and states have enacted other laws that seek to promote improved monitoring of opioids and to increase funding for research and development of non-addictive painkillers. Legislation has also been proposed that would further limit the ability to sell and prescribe opioids. These efforts may result in an additional reduction of demand for opioid products or government action against us if we fail to comply with these laws and could have a material adverse effect on our business

If we use hazardous and biological materials in a manner that causes injury or violates applicable law, we may be liable for damages.

Our operations involve the controlled use of hazardous materials and chemicals. We are subject to federal, state and local laws and regulations in the U.S. governing the use, manufacture, storage, handling and disposal of hazardous materials and chemicals. Although we believe that our procedures for using, handling, storing and disposing of these materials comply with legally prescribed standards, we may incur significant additional costs to comply with applicable laws in the future. Also, even if we are in compliance with applicable laws, we cannot completely eliminate the risk of contamination or injury resulting from hazardous materials and interrupt our business operations. In the event of an accident, we could be held liable for damages or penalized with fines, and the liability could exceed our resources. Compliance with applicable environmental laws and regulations is expensive, and current or future environmental regulations may impair our contract manufacturing operations, which could materially harm our business, financial condition and results of operations.

We may not be able to successfully offer new services.

In order to successfully compete, we will need to offer and develop new services. Without the timely introduction of enhanced or new services, our services and capabilities may become obsolete over time, in which case, our revenues and operating results would suffer. The related development costs may require a substantial investment before we can determine their commercial viability, and we may not have the financial resources to fund such initiatives.

In addition, the success of enhanced or new services will depend on several factors, including but not limited to our ability to:

- properly anticipate and satisfy customer needs, including increasing demand for lower cost services;
- · enhance, innovate, develop and manufacture new offerings in an economical and timely manner;
- differentiate our deliverables from competitors' offerings;
- meet quality requirements, authorization requirements, and other regulatory requirements of government agencies;
- · obtain valid and enforceable intellectual property rights; and
- avoid infringing the proprietary rights of third parties.



Even if we were to succeed in creating enhanced or new services, those services may not result in commercially successful offrings or may not produce revenues in excess of the costs of development and capital investment and may be quickly rendered obsolete by changing customer preferences or by technologies or features offered by our competitors. In addition, innovations may not be accepted quickly in the marketplace due to, among other things, entrenched patterns of clinical practice, the need for regulatory clearance and uncertainty over market access or government or third-party reimbursement. If we are not able to offer new services and effectively compete, our business, financial condition, and results of operations could be negatively impacted.

Technological change may cause our offerings to become obsolete over time. A decrease in our customers' purchases of our offerings could have a material adverse effect on our business, results of operations and financial condition.

The healthcare industry is characterized by rapid technological change. Demand for our services may change in ways that we may not anticipate because of evolving industry standards or as a result of evolving customer needs that are increasingly sophisticated and varied or because of the introduction by competitors of new services and technologies. In addition, we require capital and resources to support the maintenance and improvement of our facilities, including replacing or repairing aging production equipment and updating overall facility master plans. If we are unable to maintain and improve our facilities, we may experience unscheduled equipment downtime and unpredicted machinery failure and become unable to supply our customers with products or services which may affect business continuity. Any such incident or disruption in business continuity could have a material adverse effect on our business, results of operations and financial condition.

We may be adversely affected by natural disasters or other events that disrupt our business operations, and our business continuity and disaster recovery plans may not adequately protect us from a serious disaster.

Our manufacturing facilities are located in Gainesville, Georgia, where natural disasters or similar events, like hurricanes, blizzards, tornadoes, fires, floods, earthquakes or explosions or large-scale accidents or power outages, could severely disrupt our operations and have a material adverse effect on our business, prospects, results of operations and financial condition. If a disaster, power outage or other event occurred that prevented us from using all or a significant portion of our Gainesville facilities, damaged critical infrastructures, such as manufacturing resource planning and enterprise quality systems, or otherwise disrupted operations at that location, it may be difficult or, in certain cases, impossible for us to continue our development, formulation and manufacturing business for a substantial period of time, which could have a material adverse effect on our business, financial condition, and results of operations.

Currently, we maintain insurance coverage against damage to our property and equipment, and to cover business interruption expenses, in an amount we believe is sufficient for our development, formulation and manufacturing operations. However, there can be no assurance that such insurance will continue to be available on acceptable terms or that such insurance will provide adequate protection against actual losses. Even if we maintain adequate insurance coverage, claims could have a material adverse effect on our financial condition, liquidity and results of operations and on our ability to obtain suitable, adequate or cost-effective insurance in the future.

We must comply with environmental and health and safety laws and regulations, which can be expensive and restrict how we do business.

We are subject to federal, state and local laws, rules, regulations and policies concerning the environment and the health and safety of our employees. Although we believe that we have complied with the applicable laws, regulations and policies in all material respects and have not been required to correct any material noncompliance, we may be required to incur significant costs to comply with environmental and health and safety regulations in the future. Current or future laws and regulations may impair our research, development or p roduction efforts. Failure to comply with these laws and regulations also may result in substantial fines, penalties or other sanctions, which could have a material adverse effect on our business, financial condition, and results of operations.

In addition, our business involves the use, generation and disposal of hazardous materials, including chemicals, solvents, agents and biohazardous materials. As a result, we are subject to federal, state and local laws, rules, regulations and policies governing the use, generation, manufacture, storage, air emission, effluent discharge, handling and disposal of certain materials, biological specimens and wastes. Although we believe that our safety procedures for storing, handling and disposing of such materials comply with the standards prescribed by those regulations, we cannot completely eliminate the risk of accidental contamination or injury from these materials. We currently contract with third parties to dispose of these substances that we generate, and we rely on these third parties to properly dispose of these substances in compliance with applicable laws and regulations, we may be subject to legal action by governmental



agencies or private parties for improper disposal of these substances. The costs of defending such actions and the potential liability resulting from such actions are often very large. In the event we are subject to such legal action or we otherwise fail to comply with applicable laws and regulations governing the use, generation and disposal of hazardous materials and chemicals, we could be held liable for any damages that result, and any such liability could exceed our resources. In addition, although we maintain workers' compensation insurance to cover us for costs and expenses we may incur due to injuries to our employees, including those resulting from the use of hazardous materials, this insurance may not provide adequ ate coverage against potential liabilities. If we become subject to any of the foregoing liabilities, our business, financial condition, and results of operations could be materially adversely impacted.

We may be subject to litigation or government investigations for a variety of claims, which could adversely affect our operating results, harm our reputation or otherwise negatively impact our business.

We may be subject to litigation or government investigations. These may include claims, lawsuits, and proceedings involving product liability, labor and employment, wage and hour, commercial and other matters. The outcome of any litigation or government investigation, regardless of its merits, is inherently uncertain. Any lawsuits or government investigations, and the disposition of such lawsuits and government investigations, could be time-consuming and expensive to resolve and divert management attention and resources. Any adverse determination related to litigation or government investigations could adversely affect our operating results, harm our reputation or otherwise negatively impact our business. In addition, depending on the nature and timing of any such dispute, a resolution of a legal matter or government investigation could materially affect our future operating results, our cash flows or both.

Our future success depends on our ability to retain and have the full attention of our key executives as well as to attract, retain and motivate other qualified personnel.

We are highly dependent on the principal members of our executive team and, in particular, the services of Gerri A. Henwood, our President and Chief Executive Officer, the loss of whose services would adversely impact the achievement of our objectives. We have entered into employment agreements with each of our executive officers. Recruiting and retaining qualified employees for our business, including business development, scientific and technical personnel, will also be critical to our success. There is currently a shortage of skilled executives in our industry, which is likely to continue. As a result, competition for skilled personnel is intense and the turnover rate can be high. We may not be able to attract and retain personnel on acceptable terms given the competition among numerous pharmaceutical companies for individuals with similar skill sets. In addition, failure to succeed in clinical studies may make it more challenging to recruit and retain qualified personnel. The inability to recruit or loss of the services of any executive or key employee could impede the progress of our business development, research, development, manufacturing, quality and commercialization, growth and diversification objectives.

We may acquire other assets or businesses, or form collaborations or make investments in other companies or technologies, that could have a material adverse effect on our operating results, dilute our shareholders' ownership, increase our debt or cause us to incur significant expense.

As part of our business strategy, we may pursue acquisitions of assets, including, businesses or strategic alliances and collaborations, to expand our existing technologies and operations. We may not identify or complete these transactions in a timely manner, on a cost-effective basis, or at all, and we may not realize the anticipated benefits of any such transaction, any of which could have a material adverse effect on our financial condition, results of operations and cash flows. Integration of an acquired company or assets may also disrupt ongoing operations, require the hiring of additional personnel and the implementation of additional internal systems and infrastructure, especially the acquisition of commercial assets, and require management resources that would otherwise focus on developing our existing business.

To finance any acquisitions or collaborations, we may choose to issue debt or shares of our common or preferred stock as consideration. Any such issuance of shares would dilute the ownership of our shareholders. If the price of our common stock is low or volatile, we may not be able to acquire other assets or companies or fund a transaction using our stock as consideration. Alternatively, it may be necessary for us to raise additional funds for acquisitions through public or private financings. Additional funds may not be available on terms that are favorable to us, or at all.

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

We are exposed to the risk that our employees, partners, independent contractors, consultants and vendors may engage in fraudulent or other illegal activity with respect to our business. Misconduct by these employees could include intentional, reckless and/or negligent conduct or unauthorized activity that violates: (1) FDA or DEA regulations, including those laws requiring the reporting of true, complete and accurate information to the FDA; (2) manufacturing standards; (3) federal and state healthcare fraud and abuse laws and regulations; or (4) laws that require the true, complete and accurate reporting of financial information or data. Activities subject to these laws also involve the improper use of information obtained in the course of clinical trials, or illegal misappropriation of drug product, which could result in regulatory sanctions and serious harm to our reputation. Any incidents or any other conduct that leads to an employee receiving an FDA debarment could result in a loss of business from our partners and severe reputational harm. We have adopted a Code of Business Conduct and Ethics, but it is not always possible to identify and deter employee misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to be in compliance with such laws or regulations. If any such actions are instituted against us, and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of civil, criminal and administrative penalties, damages, monetary fines, possible exclusion from participation in Medicare, Medicaid and other federal healthcare programs, contractual damages, reputational harm, diminished profits and future earnings, and curtailment of our operations, any of which could adversely affect our ability to operate our b

We face potential product liability claims, and, if successful claims are brought against us, we may incur substantial liability.

The use of our products exposes us to the risk of product liability claims as well as potential toxic tort and other types of product liability claims that are inherent in the manufacture of pharmaceutical products. Product liability claims might be brought against us by consumers, health care providers, pharmaceutical companies or others selling or otherwise coming into contact with our products. If we cannot successfully defend against product liability claims, we could incur substantial liability and costs. In addition, regardless of merit or eventual outcome, product liability claims may result in:

- impairment of our business reputation and negative media attention;
- withdrawal of our customers clinical study participants or adverse effects occurring during such clinical trials;
- costs due to related litigation;
- · distraction of management's attention from our primary business;
- · decreased demand for our manufacturing services or loss of any of our commercial partners;
- substantial monetary awards to patients or other claimants;
- the inability of our customers to commercialize their product candidates;
- increased scrutiny and potential investigation by, among others, the FDA, the Department of Justice, the Office of Inspector General of the U.S. Department of Health and Human Services, State Attorneys General, members of Congress and the public.

Our current product liability insurance coverage may not be sufficient to reimburse us for any expenses or losses we may suffer. Moreover, insurance coverage is becoming increasingly expensive and, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to liability.

Changes in tax laws and unanticipated tax liabilities could adversely affect our effective income tax rate and ability to achieve profitability.

We are subject to income taxes in the United States. Our effective income tax rate in the future could be adversely affected by a number of factors including changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation of deferred tax assets and liabilities, reversal of established valuation allowances, changes to our operations including the discontinuance, licensing, spin-off or sale of any asset, changes to tax strategy, changes in transfer pricing and changes in tax laws.

We regularly assess these matters to determine the adequacy of our tax provision, which is subject to discretion. If our assessments are incorrect, it could have an adverse effect on our business and financial condition. There can be no assurance that income tax laws and administrative policies with respect to the income tax consequences generally applicable to our subsidiaries or to us will not be changed in a manner which adversely affect so ur shareholders. Changes in tax laws and unanticipated tax liabilities could adversely affect our effective income tax rate and ability to achieve profitability, which could have a material adverse effect on our business, financial condition and results of operation.

Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

As of December 31, 2019, we had federal and state net operating loss carry forwards, or NOLs, of approximately \$121.6 million and \$128.1 million, respectively. The federal carry forwards for 2008 through 2017 will expire in 2028 through 2038. Federal net operating losses incurred in 2018 and onward have an indefinite expiration under the 2017 Tax Cut & Jobs Act. The state carry forwards including those generated in 2019 will expire in 2028 through 2029.

Our NOLs may be subject to audit and future adjustment by the Internal Revenue Service in the U.S. or other state taxing authorities, which could result in a reversal of none, part, or all of the income tax benefit or could result in a benefit higher than the net amount recorded. If the relevant taxing authorities reject or reduce the amount of the income tax benefit related to our NOLs, we may have to pay additional cash income taxes, which could adversely affect our results of operations, financial condition, and cash flows. We cannot guarantee what the ultimate outcome or amount of the benefit we may receive from the NOLs, if any, will be.

Furthermore, utilization of NOLs may be subject to a substantial limitation pursuant to Section 382 of the Code as well as similar state statutes in the event of an ownership change. Such ownership changes have occurred in the past, and could occur again in the future Under Section 382 of the Internal Revenue Code of 1986, as amended, or Section 382, if a corporation undergoes an "ownership change," generally defined as a greater than 50% change (by value) in its equity ownership over a three-year period, the corporation's ability to use its pre-change NOLs and other pre-change tax attributes (such as research and development tax credits) to offset its post-change income may be limited. We may experience ownership changes in the future as a result of shifts in our stock ownership some of which are outside our control. We completed a detailed study of our NOLs and determined that there was not an ownership change in excess of 50%. Ownership changes in future periods may place additional limits on our ability to utilize net operating loss and tax credit carry forwards. In addition, at the state level, there may be periods during which the use of NOLs is suspended or otherwise limited, which could accelerate or permanently increase state taxes owed.

We incur increased costs and demands upon our management as a result of complying with the laws and regulations affecting public companies, which could harm our operating results.

We are a public company and, as such, we incur significant legal, accounting, directors & officers insurance and other expenses, including costs associated with public company reporting requirements. We incur costs associated with current corporate governance requirements, including certain of the requirements under Section 404 and other provisions of the Sarbanes-Oxley Act of 2002, as well as rules implemented by the SEC and the Nasdaq Capital Market, the stock exchange on which our common stock is listed. If we fail to comply with current corporate governance requirements, our business may be negatively affected, including by having our common stock delisted from the Nasdaq Capital Market.

The expenses incurred by public companies for reporting and corporate governance purposes have increased dramatically in recent years. We expect these rules and regulations to continue to significantly impact our legal, insurance and financial compliance costs and to make some activities more time-consuming and costly. We are unable to currently estimate these costs with any degree of certainty. We also expect that these rules and regulations may make it difficult and expensive for us to continue to maintain director and officer liability insurance, and if we are able to maintain such insurance, we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage available to privately-held companies. As a result, it may be more difficult for us to attract and retain qualified individuals to serve on our board of directors, or the board, or as our executive officers, which could have a material adverse effect on our business.

The security of our information technology systems may be compromised in the event of system failures, unauthorized access, cyberattacks or a deficiency in our cybersecurity, and confidential information, including non-public personal information that we maintain, could be improperly disclosed.

We rely extensively on information technology and systems including internet sites, data hosting, physical security, and software applications and platforms. Despite our security measures, our information technology systems, some of which are managed by third parties, may be susceptible to damage, disruptions or shutdowns due to computer viruses, attacks by computer hackers, failures during the process of upgrading or replacing software, power outages, user errors or catastrophic events. A significant breakdown, invasion, corruption, destruction or interruption of critical information technology systems, by our employees, others with authorized access to our systems or unauthorized persons could negatively impact or interrupt operations. For example, the loss of data from completed or ongoing clinical trials for product candidates could result in delays in regulatory approval efforts and significantly increase our costs to recover or reproduce the data. The use of technology, including cloud-based computing, creates opportunities for the unintentional dissemination or intentional destruction of confidential information stored in our systems or our third-party systems. We could also experience a business interruption, theft of confidential information or reputational damage from malware or other cyberattacks, which may compromise our systems or lead to data leakage, either internally or at our third-party providers.

As part of our business, we maintain large amounts of confidential information, including non-public personal information on patients and our employees. The maintenance of such information is governed by various rules and regulations in the jurisdictions in which we conduct our business, including by the General Data Privacy Regulation, or GDPR, in the European Union. Breaches in security, either internally or at our third-party providers, could result in the loss or misuse of this information, which could, in turn, result in potential regulatory actions or litigation, including material claims for damages, interruption to our operations, damage to our reputation or otherwise have a material adverse effect on our business, financial condition and operating results. Although we believe we have appropriate information security policies and systems in place in order to prevent unauthorized use or disclosure of confidential information, including non-public personal information, there can be no assurance that such use or disclosure will not occur.

Any such business interruption, theft of confidential information or reputational damage from malware or other cyberattacks, or violation of personal information laws, could have a material adverse effect on our business, financial condition, and results of operations.

If we fail to comply with data protection laws and regulations, we could be subject to government enforcement actions (which could include civil or criminal penalties), private litigation and/or adverse publicity, which could negatively affect our operating results and business.

We are subject to laws and regulations that address privacy and data security of patients who use our product candidates in the United States and in states in which we conduct our business. In the United States, numerous federal and state laws and regulations, including state data breach notification laws, state health information privacy laws, and federal and state consumer protection laws (e.g., Section 5 of the Federal Trade Commission Act) govern the collection, use, disclosure, and protection of health-related and other personal information. For instance, HIPAA imposes certain obligations, including mandatory contractual terms, with respect to safeguarding the privacy, security and transmission of individually identifiable health information and imposes notification obligations in the event of a breach of the privacy or security of individually identifiable health information on entities subject to HIPAA and their business associates that perform certain activities that involve the use or disclosure of protected health information on their behalf. Failure to comply with applicable data protection laws and regulations could result in government enforcement actions and create liability for us, which could include civil and/or criminal penalties, as well as private litigation and/or adverse publicity that could negatively affect our operating results and business.

Risks Related to Our Intellectual Property

We own numerous pending patent applications and issued patents in the United States. If our pending patent applications fail to issue or if our issued patents expire or are successfully opposed, invalidated, or rendered unenforceable, our business will be adversely affected.

To protect our proprietary technology, we rely on patents and other intellectual property protections, including trade secrets, nondisclosure agreements and confidentiality provisions.

As of December 31, 2019, we own five issued U.S. patents, and pending applications in the U.S. and several foreign countries relating to Zohydro-ER®, all of which expire on September 12, 2034. We license the Canadian patent application relating to this technology to our commercial partner, Paladin Labs Inc., in Canada. The patent applications that we have filed and have not yet been granted may fail to result in issued patents in the United States or foreign countries. Even if the patents do successfully issue, third parties

may challenge the patents or the inventorship thereof, which can lead to an issued patent being found invalid, unenforceable or can otherwise alter the ownership of the patents.

The issuance of any patent is not a certainty. Unless and until our pending applications issue, their protective scope is impossible to determine. It is impossible to predict whether or how many of these applications will result in issued patents and patents that issue may be challenged in the courts or patent offices in the United States and abroad. Such challenges may result in loss of patent exclusivity or freedom to operate or in patent claims being narrowed, invalidated or held unenforceable, in whole or in part, which may limit our ability to prevent others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and products. In addition, upon expiration of a patent, we may be limited in our ability to prevent others from using or commercializing subject matter covered by the expired patents. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

Patent reform legislation could increase the uncertainties and costs surrounding the prosecution of patent applications and the enforcement or defense of issued patents. The Leahy Smith America Invents Act, or the Leahy Smith Act, enacted in September 2011, brought significant changes to the U.S. patent system. These include provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The United States Patent Office continues to develop and implement new regulations and procedures to govern administration of the Leahy Smith Act, and many of the substantive changes to patent law associated with the Leahy Smith Act became effective on March 16, 2013. The Leahy Smith Act and its implementation could increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patent, all of which could have a material adverse effect on our business and financial condition.

Litigation involving patents, patent applications and other proprietary rights is expensive and time-consuming. If we are involved in such litigation, it could interfere with our business.

Our success depends in part on not infringing patents and proprietary rights of third parties. Although we are not currently aware of litigation or other proceedings or third-party claims of intellectual property infringement related to our technologies or business activities, the pharmaceutical industry is characterized by extensive litigation regarding patents and other intellectual property rights.

In a patent infringement claim against us, we may assert, as a defense, that we do not infringe the relevant patent claims, that the patent is invalid or both. The strength of our defenses will depend on the patents asserted, the interpretation of these patents and/or our ability to invalidate the asserted patents. However, we could be unsuccessful in advancing non-infringement and/or invalidity arguments in our defense. In the United States, issued patents enjoy a presumption of validity, and the party challenging the validity of a patent claim must present clear and convincing evidence of invalidity, which is a high burden of proof. Conversely, the patent owner need only prove infringement by a preponderance of the evidence, which is a low burden of proof.

If we were found by a court to have infringed a valid patent claim, we could be prevented from using the patented technology or be required to pay the owner of the patent for the right to license the patented technology. If we decide to pursue a license to one or more of these patents, we may not be able to obtain a license on commercially reasonable terms, if at all, or the license we obtain may require us to pay substantial royalties or grant cross licenses to our patent rights. For example, if the relevant patent is owned by a competitor, that competitor may choose not to license patent rights to us. If we decide to develop alternative technology, we may not be able to do so in a timely or cost-effective manner, if at all.

In addition, because patent applications can take years to issue and are often afforded confidentiality for some period of time, there may currently be pending applications, unknown to us, that later result in issued patents that could cover one or more of our products.

It is possible that we may in the future receive, particularly as a public company, communications from competitors and other companies alleging that we may be infringing their patents, trade secrets or other intellectual property rights, offering licenses to such intellectual property or threatening litigation. In addition to patent infringement claims, third parties may assert copyright, trademark or other proprietary rights against us. We may need to expend considerable resources to counter such claims and may not be able to be successful in our defense. Our business may suffer if a finding of infringement is established.

Generic competitors can challenge the U.S. patents protecting our commercial partners' product candidates by filing an ANDA or an NDA for a generic or a modified version of our commercial partners' product candidates.



Separate and apart from the protection provided under the U.S. patent laws, drug candidates may be subject to the provisions of theHatch-Waxman Act, which may provide drug candidates with either a three- or five-year period of marketing exclusivity following receipt of FDA approval. The Hatch-Waxman Act prohibits the FDA from accepting the filing of an ANDA application (for a generic product) or a 505(b)(2) NDA (for a modified version of the product) for three years for active drug ingredients previously approved by the FDA or for five years for active drug ingredients not previously approved by the FDA.

There is an exception, however, for newly approved molecules that allows competitors to challenge a patent beginning four years into the five-year exclusivity period by alleging that one or more of the patents listed in the FDA's list of approved drug products are invalid, unenforceable and/or not infringed and submitting an ANDA for a generic version of a drug candidate. This patent challenge is commonly known as a Paragraph IV certification. Within the past several years, the generic industry has aggressively pursued approvals of generic versions of innovator drugs at the earliest possible point in time.

If a generic company is able to successfully challenge the patents covering drug candidates by obtaining FDA approval for an ANDA, the generic company may choose to launch a generic version of a drug candidate. Any launch of a generic version of our drug candidates prior to the expiration of patent protection will have a material adverse effect on our revenues and our results of operations.

We and our commercial partners have been involved in Paragraph IV litigation in the United States involving some of our patents in respect of Zohydro ER®. These litigations have been, and any other Paragraph IV litigation may be, expensive, distracting to management and protracted. Although we and our commercial partners have successfully settled our Paragraph IV litigation, any future Paragraph IV litigation could result in new or additional generic competition to Zohydro ER®. We have confirmed a generic for the (hydrocodone bitartrate) SR capsules 10, 15, 20, 30 40 and 50 was approved by FDA / OGD on Jan 21, 2020 for Alvogen which could have a material adverse effect on our business, results of operations, financial condition and prospects. In addition, we were previously involved in an interference in front of the United States Patent and Trademark Office with another party, which involved a patent application relating to Zohydro ER®, for which we ultimately were successful on appeal. However, any future interference claims could arise, and if successful, result in the issuance of a patent that could limit our freedom to operate in respect to Zohydro ER®, which could also cause a reduction in revenue and have a material adverse effect on our business, prospects, results of operations and financial condition.

It is difficult and costly to protect our proprietary rights, and we may not be able to ensure their protection.

The patent positions of pharmaceutical companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of claims allowed in pharmaceutical patents has emerged in the United States to date. The pharmaceutical patent situation outside of the United States is even more uncertain. Changes in either the patent laws or in interpretations of patent laws in the United States and other countries may diminish the value of our intellectual property. Accordingly, we cannot predict the breadth of claims that may be allowed or enforced in the patents that may be issued from the applications we currently or may in the future own or license from third parties. Further, if any patent license we obtain is deemed invalid and/or unenforceable, it could impact our ability to commercialize or partner our technology.

The degree of future protection for our proprietary rights is uncertain, and we cannot ensure that:

- we were the first to make the inventions covered by each of our pending patent applications;
- we were the first to file patent applications for these inventions;
- others will not independently develop similar or alternative technologies or duplicate any of our technologies;
- an individual or party will not challenge inventorship, that if successful, could have an adverse effect on our business;
- any patents issued to us or our collaborators will provide a basis for commercially viable products, will provide us with any competitive advantages or will not be challenged by third parties; or
- the patents of others will not have an adverse effect on our business.

If we do not adequately protect our proprietary rights, competitors may be able to use our technologies and erode or negate any competitive advantage we may possess, which could materially harm our business, negatively affect our position in the marketplace, limit our ability to commercialize our product candidates and delay or render impossible our achievement of profitability.

We may be unable to adequately prevent disclosure of trade secrets and other proprietary information.

In the future, we may rely on trade secrets to protect our proprietary know-how and technological advances, especially where we do not believe patent protection is appropriate or obtainable. However, trade secrets are difficult to protect. We rely in part on confidentiality agreements with our employees, consultants, outside scientific collaborators, sponsored researchers and other advisors to protect our trade secrets and other proprietary information. These agreements may not effectively prevent disclosure of confidential information and may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. In addition, others may information. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights. Failure to obtain or maintain trade secret protection could enable competitors to use our proprietary information to develop products that compete with our products or cause additional, material adverse effects on our competitive business position.

Our ability to manufacture products for our commercial partners may be impaired if any of our manufacturing activities, or the activities of third parties involved in our manufacture and supply chain, are found to infringe patents of others.

Our ability to continue to manufacture products for our commercial partners, to utilize third parties to supply raw materials or other products, or to perform fill/finish services or other steps in our manufacture and supply chain, depends on our and their ability to operate without infringing the patents and other intellectual property rights of others. Other parties may allege that our manufacturing activities, or the activities of third parties involved in our manufacturing and supply chain, infringe patents or other intellectual property rights. A judicial decision in favor of one or more parties making such allegations could preclude the manufacture of the products to which those intellectual property rights apply, which could materially harm our business, operating results and financial condition.

Risks Relating to Our Securities

We may incur operational difficulties or be exposed to claims and liabilities as a result of the separation and distribution of Baudax Bio.

On November 21, 2019, we distributed all of the then outstanding shares of Baudax Bio common stock to our shareholders in connection with the separation of our Acute Care business. In connection with the distribution, we entered into a separation and distribution agreement and various other agreements (including a transition services agreement, a tax matters agreement, a manufacturing and supply agreement, an employee matters agreement, an intellectual property matters agreement and certain other commercial agreements). These agreements govern the separation and distribution and the relationship between the two companies going forward, including with respect to potential tax-related losses associated with the separation and distribution. They also provide for the performance of services by each company for the benefit of the other for a period of time.

The separation and distribution agreement provides for indemnification obligations designed to make Baudax Bio financially responsible for any liabilities that may exist relating to its business activities, whether incurred prior to or after the distribution, including any pending or future litigation. It is possible that a court would disregard the allocation agreed to between us and Baudax Bio and require us to assume responsibility for obligations allocated to Baudax Bio. Third parties could also seek to hold us responsible for any of these liabilities or obligations, and the indemnity rights we have under the separation and distribution agreement may not be sufficient to fully cover all of these liabilities and obligations. Even if we are successful in obtaining indemnification, we may have to bear costs temporarily. In addition, our indemnity obligations to Baudax Bio may be significant. These risks could negatively affect our business, financial condition or results of operations.

The separation of Baudax Bio continues to involve a number of risks, including, among other things, the indemnification risks described above and the potential that management's and our employees' attention will be significantly diverted by the provision of transitional services. Certain of the agreements described above provide for the performance of services by each company for the benefit of the other for a period of time. If Baudax Bio is unable to satisfy its obligations under these agreements, including its

indemnification obligations, we could incur losses. Our inability to effectively manage the separation activities and related events could adversely affect our business, financial condition or results of operations.

The market price and trading volume of our common stock have been and may continue to be volatile, which could result in rapid and substantial losses for our shareholders.

The market price for our common stock has been volatile and may continue to fluctuate or may decline significantly in the future. An active, liquid and orderly market for our common stock may not be sustained, which could depress the trading price of our common stock or cause it to continue to be highly volatile or subject to wide fluctuations. Some of the factors that could negatively affect our share price or result in fluctuations in the price or trading volume of our common stock include, among other things:

- · FDA, state or international regulatory actions, including actions on regulatory applications for any of our commercial partners' product candidates;
- legislative or regulatory changes;
- judicial pronouncements interpreting laws and regulations;
- changes in government programs;
- announcements of new products, services or technologies, commercial relationships, acquisitions or other events by us or our competitors;
- changes in demand for or pricing of our customers products;
- the sales ramp and trajectory for our formulation, development and manufacturing services;
- market conditions in the pharmaceutical and biotechnology sectors;
- fluctuations in stock market prices and trading volumes of similar companies;
- changes in accounting principles;
- litigation or public concern about the safety of our products or similar products;
- · sales of large blocks of our common stock, including sales by our executive officers, directors and significant shareholders
- · our announcement of financing transactions, including debt, convertible notes, etc.; and
- actions by institutional or activist shareholders.

These broad market and industry factors may decrease the market price of our common stock, regardless of our actual operating performance. In addition, in the past, following periods of volatility in the overall market and decreases in the market price of a company's securities, securities class action litigation has often been instituted against these companies. Following the decrease in our trading price in May 2018, a securities class action lawsuit was filed against us and certain of our officers and directors for alleged violations of Section 10(b) and 20(a) of the Exchange Act and Rule 10(b)(5) promulgated thereunder. The complaint seeks unspecified damages, interest, attorneys' fees and other costs. On December 10, 2018, lead plaintiff filed an amended complaint that asserted the same claims and sought the same relief but included new allegations and named additional officers as defendants. On February 8, 2019, we filed a motion to dismiss the amended complaint in its entirety which the lead plaintiff opposed on April 9, 2019. On May 9, 2019, we filed our response and briefing was completed on the motion to dismiss. In response to questions from the Judge, the parties submitted supplemental briefs with regard to the motion to dismiss the amended complaint during the fall of 2019. On February 18, 2020, the motion to dismiss was granted without prejudice; however, the plaintiffs have indicated that they intend to file a new complaint. In connection with the separation from Baudax Bio, Baudax Bio accepted



assignment from us of all of our obligations in connection with the litigation and agreed to indemnify us for all liabilities related to the litigation. This litigation, and any other securities class actions that may be brought against us, could result in substantial costs and a diversion of our management's attention and resources.

Sales of a substantial number of shares of our common stock in the public market could cause our stock price to fall.

Sales of a substantial number of shares of our common stock in the public market or the perception that these sales might occur, could depress the market price of our common stock and could impair our ability to raise capital through the sale of additional equity securities. We are unable to predict the effect that sales may have on the prevailing market price of our common stock.

Certain holders of our securities are entitled to rights with respect to the registration of their shares under the Securities Act. Registration of these shares under the Securities Act would result in the shares becoming freely tradable without restriction under the Securities Act. Any sales of shares by these shareholders could have a material adverse effect on the trading price of our common stock.

If we fail to maintain proper and effective internal controls, our ability to produce accurate and timely financial statements could be impaired, which could harm our operating results, our ability to operate our business and investors' views of us.

Ensuring that we have adequate internal financial and accounting controls and procedures in place so that we can produce accurate financial statements on a timely basis is a costly and time-consuming effort that will need to be frequently evaluated. Section 404 of the Sarbanes-Oxley Act requires public companies to conduct an annual review and evaluation of their internal controls and attestations of the effectiveness of internal controls by independent auditors (the latter requirement does not apply to smaller reporting companies-we qualify as a smaller reporting company). Our failure to maintain the effectiveness of our internal controls in accordance with the requirements of the Sarbanes-Oxley Act could have a material adverse effect on our business. We could lose investor confidence in the accuracy and completeness of our financial reports, which could have an adverse effect on the price of our common stock.

As of December 31, 2019, we are no longer an "emerging growth company" and, as a result, are required to comply with increased disclosure and governance requirements.

As of December 31, 2019, we ceased to be an "emerging growth company" as defined in the JOBS Act as of December 31, 2019. We are now subject to certain requirements that apply to other public companies but did not previously apply to us. These requirements include:

- the provisions of Section 404(b) of the Sarbanes-Oxley Act requiring that our independent registered public accounting firm provide an attestation report on the
 effectiveness of our internal control over financial reporting; and the "say on pay" provisions (requiring a non-binding stockholder vote to approve compensation
 of certain executive officers) and
- the "say on golden parachute" provisions (requiring a non-binding stockholder vote to approve golden parachute arrangements for certain executive officers in connection with mergers and certain other business combinations) of the Dodd-Frank Act and some of the disclosure requirements of the Dodd-Frank Act relating to compensation of our chief executive office

Therefore, this Annual Report is subject to Section 404(b) of the Sarbanes-Oxley Act, which requires that our independent registered public accounting firm provide an attestation report on the effectiveness of our internal control over financial reporting. Compliance with Section 404 is expensive and time consuming for management and could result in the detection of internal control deficiencies of which we are currently unaware. The loss of "emerging growth company" status and compliance with the additional requirements significantly impacts our legal and financial compliance costs and make some activities more time consuming and costly.

Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.

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, recorded, processed, summarized and reported within the time periods specified in 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 or insufficient disclosures due to error or fraud may occur and not be detected.

If securities or industry analysts do not continue to publish research or reports, or if they publish unfavorable research or reports, about our business, our stock price and trading volume could decline.

The trading market for our common stock depends in part on the research and reports that securities or industry analysts publish about us, our business, our market or our competitors. We currently have limited research coverage by securities and industry analysts. If additional securities or industry analysts do not commence coverage of our company, the trading price for our stock could be negatively impacted. In the event we obtain securities or industry analyst coverage, if one or more of the analysts who covers us downgrades our stock, our stock price would likely decline. If one or more of these analysts ceases to cover us or fails to regularly publish reports on us, interest in our stock could decrease, which could cause our stock price or trading volume to decline.

We have never paid cash dividends on our common stock and do not intend to do so for the foreseeable future.

We have never paid cash dividends on our common stock and we do not anticipate that we will pay any cash dividends on our common stock for the foreseeable future. Accordingly, any return on an investment in our common stock will be realized, if at all, only when shareholders sell their shares. In addition, our failure to pay cash dividends may make our stock less attractive to investors, adversely impacting trading volume and price.

The concentration of our capital stock ownership with our directors and their affiliated entities and our executive officers will limit shareholders' abilities to influence certain corporate matters.

Our directors and their affiliated entities, and our executive officers, beneficially own, in the aggregate, approximately 18% of our outstanding common stock as of December 31, 2019. As a result, these shareholders are collectively able to influence matters requiring approval of our shareholders, including the election of directors and approval of significant corporate transactions, such as mergers, consolidations or the sale of all or substantially all of our assets. Such influence may delay, prevent or deter a change in control of our company, even when such a change may be in the best interests of some shareholders, impede a merger, consolidation, takeover or other business combination involving us, or could deprive our shareholders of an opportunity to receive a premium for their common stock as part of a sale of our company or our assets and might adversely affect the prevailing market price of our common stock.

Some provisions of our charter documents and Pennsylvania law may have anti-takeover effects that could discourage an acquisition of us by others, even if an acquisition would be beneficial to our shareholders, and may prevent attempts by our shareholders to replace or remove our current management.

Provisions in our articles of incorporation and amended and restated bylaws could make it more difficult for a third-party to acquire us or increase the cost of acquiring us, even if doing so would benefit our shareholders, or remove our current management. These include provisions that:

- divide our board of directors into three classes with staggered three-year terms;
- provide that a special meeting of shareholders may be called only by a majority of our board of directors;
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- establish advance notice procedures with respect to shareholder proposals to be brought before a shareholder meeting and the nomination ofcandidates for election as directors, other than nominations made by or at the direction of the board of directors or a committee of the board of director;
- provide that shareholders may only act at a duly organized meeting; and
- provide that members of our board of directors may be removed from office by our shareholders only for cause by the affirmative vote of 75% of the total voting power of all shares entitled to vote generally in the election of directors.

These provisions may frustrate or prevent any attempts by our shareholders to replace or remove our current management by making it more difficult for shareholders to replace members of our board of directors, who are responsible for appointing the members of our management. Because we are incorporated in Pennsylvania, we are governed by the provisions of the Pennsylvania Business Corporation Law of 1988, which may discourage, delay or prevent someone from acquiring us or merging with us whether or not it is desired by or beneficial to our shareholders. Under Pennsylvania law, a corporation may not, in general, engage in a business combination with any holder of 20% or more of its capital stock unless the holder has held the stock for five years or, among other things, the board of directors has approved the transaction. Any provision of our articles of incorporation or bylaws or Pennsylvania law that has the effect of delaying or deterring a change in control could limit the opportunity for our shareholders to receive a premium for their shares of our common stock, and could also affect the price that some investors are willing to pay for our common stock.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our principal executive offices are located at 490 Lapp Road, Malvern, PA 19355. We currently operate our owned 97,000 square foot, DEA-licensed facility in Gainesville, Georgia and leased 24,000 square foot development and high potency product services facility, also in Gainesville, GA, which expires on June 30, 2025.

Item 3. Legal Proceedings

On May 31, 2018, a securities class action lawsuit, or the Securities Litigation, was filed against us and certain of our officers and directors in the U.S. District Court for the Eastern District of Pennsylvania (Case No. 2:18-cv-02279-MMB) that purported to state a claim for alleged violations of Section 10(b) and 20(a) of the Exchange Act and Rule 10(b)(5) promulgated thereunder, based on statements made by us concerning the NDA for IV meloxicam. The complaint seeks unspecified damages, interest, attorneys' fees and other costs. On December 10, 2018, lead plaintiff filed an amended complaint that asserted the same claims and sought the same relief but included new allegations and named additional officers as defendants. On February 8, 2019, we filed a motion to dismiss the amended complaint in its entirety, which the lead plaintiff opposed on April 9, 2019. On May 9, 2019, we filed our response and briefing was completed on the motion to dismiss. In response to questions from the Judge, the parties submitted supplemental briefs with regard to the motion to dismiss the amended complaint. In connection with the separation of Baudax Bio, Baudax Bio accepted assignment by us of all of our obligations in connection with the Securities Litigation and agreed to indemnify us for all liabilities related to the Securities Litigation. We believe that the lawsuit is without merit and intend to vigorously defend against it if the plaintiffs file a new complaint. The lawsuit is in the early stages and, at this time, no assessment can be made as to its likely outcome or whether the outcome will be material to us.

Item 4. Mine Safety Disclosures

Not applicable.



PART II

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

Market Information

Our common stock is traded on the Nasdaq Capital Market under the symbol "REPH."

Holders of Common Stock

As of February 28, 2020, there were 7 holders of record of our common stock. We believe that the number of beneficial owners of our common stock at that date was substantially greater.

Dividend Policy

We have never declared or paid any cash dividends on our common stock and our ability to pay cash dividends is currently prohibited by the terms of our credit facility with Athyrium. We do not anticipate paying cash dividends on our common stock in the foreseeable future. Payment of future dividends, if any, on our common stock will be at the discretion of our board of directors after taking into account various factors, including our financial condition, operating results, anticipated cash needs and plans for expansion.

Issuer Repurchases of Equity Securities

None.

Securities Authorized for Issuance Under Equity Compensation Plans

Other information about our equity compensation plans is incorporated herein by reference to Part III, Item 12 of this Annual Report on Form 10-K.

Recent Sales of Unregistered Securities

None.

Item 6. Selected Financial Data

None.

Performance Graph

This performance graph shall not be deemed "soliciting material" or to be "filed" with the SEC for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or the Exchange Act, or otherwise subject to the liabilities under that Section, and shall not be deemed to be incorporated by reference into any of our filings under the Securities Act or the Exchange Act.

The following graph illustrates a comparison of the total cumulative stockholder return for our common stock since December 31, 2014, to two indices: the NASDAQ Composite Index and the NASDAQ Biotechnology Index. The graph assumes an initial investment of \$100 on December 31, 2014, in our common stock, the stocks comprising the NASDAQ Composite Index, and the stocks comprising the NASDAQ Biotechnology Index. Historical stockholder return is not necessarily indicative of the performance to be expected for any future periods.



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

You should read the following discussion and analysis of our financial condition and results of operations together with our consolidated financial statements and the related notes appearing elsewhere. In addition to historical information, this discussion and analysis contains forward-looking statements that involve risks, uncertainties and assumptions and other factors that could cause actual results to differ materially from those made, projected or implied in the forward-looking statements. Our actual results may differ materially from those discussed below. Please see "Forward-Looking Statements" and "Risk Factors" included in Part I, Item 1A of this Annual Report on Form 10-K for factors that could cause or contribute to such differences.

Overview

We are a leading contract development and manufacturing organization, or CDMO, with integrated solutions for the development, formulation, regulatory support, manufacturing, and packaging of oral solid dose drug products. We operate through a single CDMO business upon completion of the spin-off of our historical Acute Care business, which occurred on November 21, 2019.

We leverage our formulation and development expertise to develop and manufacture pharmaceutical products using proprietary delivery technologies and know-how for commercial partners who commercialize or plan to commercialize these products. These collaborations result in revenue streams including manufacturing, royalties, profit sharing, and research and development, which support our continued operations. We operate a 97,000 square foot, DEA-licensed manufacturing facility in Gainesville, Georgia, as well as a 24,000 square foot development and high potency product facility in Gainesville, Georgia that we opened in October 2018. We currently develop and/or manufacture the following key products with our key commercial partners: Ritalin LA®, Focalin XR®, Verelan PM®, Verelan SR®, Verapamil PM, Verapamil SR and Zohydro ER®, as well as supporting development stage products.

We have used cash flow generated by our business primarily to fund operations at our Gainesville, Georgia manufacturing facilities, fund our historical Acute Care business and to make payments under our credit facility. We believe our business will continue to contribute cash for these and other general corporate purposes.

In November 2019, our former Acute Care business was spun-out from us through our former wholly-owned subsidiary, Baudax Bio, Inc., or Baudax Bio, when we completed a special dividend distribution of all the outstanding shares of common stock of Baudax Bio to our shareholders. On November 21, 2019, the distribution date, each of our shareholders received one share of Baudax Bio's common stock, or the Distribution, for every two and one-half shares of our common stock held of record at the close of business on November 15, 2019, the record date for the Distribution. Additionally, we contributed \$19 million of cash to Baudax Bio in connection with the separation. As a result of the Distribution, Baudax Bio is now an independent public company whose shares of common stock are trading under the symbol "BXRX" on The Nasdaq Capital Market, or Nasdaq.

Our consolidated results of operations and financial position included in this Annual Report on Form 10-K reflect the financial results of Baudax Bio as a discontinued operation for all periods presented. For additional information on the spin-off of Baudax Bio please read Note 4, Discontinued Operations, to our consolidated financial statements included in this Annual Report on Form 10-K.

Financial Overview

Revenues

During the twelve months ended December 31, 2019, 2018 and 2017, we recognized revenues from three revenue streams: manufacturing revenue, royalty revenue and research and development revenue.

Manufacturing revenue

We recognize manufacturing revenue from the sale of products we manufacture for our commercial partners. Manufacturing revenues are recognized upon transfer of control of a product to a customer, generally upon shipment, based on a transaction price that reflects the consideration we expect to be entitled to as specified in the agreement with the commercial partner, which could include pricing and volume-based adjustments.

Royalty revenue

We recognize royalty or profit sharing revenue, collectively referred to as royalty revenue, related to the sale of products by our commercial partners that incorporate our technologies. Royalty revenues are generally recognized under the terms of the applicable license, development and/or supply agreement. For arrangements that include sales-based royalties and the license is deemed to be the predominant item to which the royalties relate, we recognize revenue when the related sales occur by the commercial partner. For arrangements that include sales-based royalties and the license is not deemed to be the predominant item to which the royalties relate, we recognize revenue when the recognize revenue when the performance obligation to which the royalty has been allocated has been satisfied, which is upon transfer of control of a product to a customer. In this case, significant judgment is used in the estimation of these royalties based on



historical customer pricing and deductions and is partially constrained due to items that are outside of our control including the uncertainty of the timing of future commercial partner sales, mix of volume, customer stocking and ordering patterns, as well as unforeseen price adjustments made by our commercial partners.

Research and Development revenue

Research and development revenue consists of revenue that compensates us for services performed, such as formulation, process development, and preparation of preclinical and clinical drug product materials under research and development arrangements with partners. Revenues related to research and development are generally recognized as the related services or activities are performed using the output method and in accordance with the contract terms. To the extent that the agreements specify services are to be performed on a fixed basis, revenues are recognized consistent with the pattern of the work performed. In agreements that specify milestones, we evaluate whether the milestones are considered probable of being achieved and estimate the amount to be included in the transaction price using the most likely amount method. If it is probable that a significant revenue reversal would not occur, the value of the associated milestone is recognized at a point in time. Non-refundable milestone payments related to arrangements under which we have continuing performance obligations would be deferred and recognized over the period of performance. Milestone payments that are not within our control, such as submission for approval to regulators by a partner or approvals from regulators, are not considered probable of being achieved until those submissions are submitted by the customer or approvals are received.

Research and Development Expenses

Research and development expenses consist of costs incurred for our product and formulation development activities, including regulatory support. We expense research and development costs as incurred. Advanced payments for good and services that will be used in future research and development activities are initially recorded as prepaid expenses and expensed as the activity is performed or when the goods have been received. In 2018 and 2017, these costs included salaries and related costs for personnel in research and development and regulatory functions. In the fourth quarter of 2018, we shifted the focus of these personnel to revenue-generating activities and, as such, these costs are included as a cost of sales beginning in the fourth quarter of 2018.

Selling, General and Administrative Expenses

Selling, General and Administrative expenses consists of salaries and related costs for corporate administrative, public company costs, business development personnel as well as legal, patent-related expenses and consulting fees. Public company costs include compliance, auditing services, tax services, insurance and investor relations. As a significant portion of these corporate public company costs related to a more complex organization with multiple segments, these costs going forward are expected to be in the range of mid to upper single digits, excluding non-cash expenses and new initiatives as they relate to our operations as a stand-alone public company.

We expect our business development expenses to increase in 2020 as we continue to expand our sales team in various geographies, in anticipation of business growth from new formulation and development capabilities.

Amortization of Intangible Assets

We recognize amortization expense related to the intangible asset for our contract manufacturing relationships on a straight-line basis over an estimated useful life of six years.

Change in Fair Value of Warrants

We have classified as liabilities certain warrants outstanding that contain a contingent net cash settlement feature, upon a change in control. The fair value of these warrants are remeasured through settlement or expiration with changes in fair value recognized as a period charge within the Consolidated Statements of Operations and Comprehensive Loss. All remaining liability classified warrants were exercised in November 2019. A fair value determination at the time of the exercise occurred and is included in the change in warrant valuation for the year ended December 31, 2019.

Interest Expense, net

Interest expense, net for the twelve months ended December 31, 2019 and 2018 was a result of interest expense incurred on our Athyrium senior secured term loan and the amortization of the related financing costs. Interest expense for the twelve months ended December 31, 2017 was a result of interest expense incurred on our OrbiMed and Athyrium senior secured term loans and the amortization of the related financing costs. In addition, due to the November 2017 refinancing of our debt, in 2017 we incurred one-

time charges for fees related to early extinguishment of the OrbiMed debt and the non-cash write-off of OrbiMed deferred financing costs.

Net Operating Losses and Tax Carryforwards

As of December 31, 2019, we had approximately \$121.6 million of federal net operating loss carryforwards. We also had federal and state research and development tax credit carryforwards of \$4.4 million available to offset future taxable income. U.S. tax laws limit the time during which these carryforwards may be utilized against future taxes. With the exception of the 2019 and 2018 federal net operating losses, which have an indefinite carry forward period, these federal and state net operating loss and federal and state tax credit carryforwards will begin to expire at various dates beginning in 2028, if not utilized. We believe that it is more likely than not that the deferred income tax assets associated with our U.S. operations will not be realized, and as such, there is a full valuation allowance against our U.S. deferred tax assets.

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Results of Operations

Comparison of the Twelve Months Ended December 31, 2019 and 2018:

	Year ended December 31,					
	2019	2018				
	(amounts in thousands)					
Revenue	\$ 99,219	\$	77,347			
Operating expenses:						
Cost of sales (excluding amortization of intangible assets)	50,981		43,160			
Research and development			4,402			
Selling, general and administrative	19,909		14,437			
Amortization of intangible assets	2,583		2,583			
Change in warrant valuation	2,116		284			
Total operating expenses	75,589		64,866			
Operating income from continuing operations	23,630		12,481			
Other income (expense):						
Interest expense, net	(19,005)		(8,113)			
Income from continuing operations before income taxes	4,625		4,368			
Income tax expense	_		(17,436)			
Net income (loss) from continuing operations	 4,625		(13,068)			
Loss on discontinued operations (see Note 4)	(23,255)		(66,655)			
Net loss	\$ (18,630)	\$	(79,723)			

Revenue and Cost of sales. Our revenues were \$99.2 million and \$77.3 million and cost of sales were \$51.0 million and \$43.2 million for the twelve months ended December 31, 2019 and 2018, respectively. The increase of \$21.9 million in revenue was primarily due to increased profit sharing royalties recognized from one of our commercial partners and an increase in product sales to various commercial partners. The increase in cost of sales of \$7.8 million was primarily due to product mix and expanded service and development capabilities as well as growth in manufacturing demand.

Research and Development. There were no research and development expenses for the twelve months ended December 31, 2019. Our research and development expenses were \$4.4 million for the twelve months ended December 31, 2018. In the fourth quarter of 2018, we shifted the focus of our development activities to support revenue generating activities and therefore such costs are now included in cost of sales above.

Selling, General and Administrative. Our selling, general and administrative expenses were \$19.9 million and \$14.4 million for the twelve months ended December 31, 2019 and 2018, respectively. The increase of \$5.5 million was primarily due to higher public company costs (including corporate initiatives), which increased by \$4.1 million for the year ended December 31, 2019 compared to \$12.2 million for the year ended December 31, 2018. The remaining \$1.4 million increase was driven by higher business development costs, as we expanded our sales team in various geographies in anticipation of business growth from new formulation and development capabilities.

Amortization of Intangible Assets. Amortization expense was \$2.6 million for each of the twelve months ended December 31, 2019 and 2018, respectively, which was exclusively related to the amortization of our royalties and contract manufacturing relationships intangible asset over its estimated useful life.

Interest Expense, net. Interest expense, net was \$19.0 million and \$8.1 million during the twelve months ended December 31, 2019 and 2018, respectively. The increase in interest expense, net, was due to a higher principal balance on our Athyrium senior secured term loan and amortization of the related financing costs.

Income Tax Expense. As a result of recording a full valuation allowance, there was no income tax benefit for the twelve months ended December 31, 2019. For the twelve months ended December 31, 2018, the income tax expense was \$17.4 million, which reflects the recording of a full valuation allowance in the fourth quarter of 2018. As discussed in Note 17 to the Consolidated Financial Statements included in this Form 10-K, we believe that it is more likely than not that the deferred income tax assets associated with our U.S. operations will not be realized, and as such, there is a full valuation allowance against our U.S. deferred tax assets.

Comparison of the Years Ended December 31, 2018 and 2017:

	Year ended December 31,				
	 2018		2017		
	 (amounts in	thousan	ds)		
Revenue	\$ 77,347	\$	71,834		
Operating expenses:					
Cost of sales (excluding amortization of intangible assets)	43,160		38,193		
Research and development	4,402		4,460		
Selling, general and administrative	14,437		14,324		
Amortization of intangible assets	2,583		2,583		
Change in warrant valuation	284		9		
Total operating expenses	64,866		59,569		
Operating income from continuing operations	12,481		12,265		
Other income (expense):					
Interest expense, net	(8,113)		(11,665)		
Income from continuing operations before income taxes	4,368		600		
Income tax expense	(17,436)		(7,317)		
Net loss from continuing operations	 (13,068)	-	(6,717)		
Loss on discontinued operations (see Note 4)	(66,655)		(43,365)		
Net loss	\$ (79,723)	\$	(50,082		

Revenue and Cost of sales. Our revenues were \$77.3 million and \$71.8 million and cost of sales were \$43.2 million a \$38.2 million for the twelve months ended December 31, 2018 and 2017, respectively. The \$5.5 million increase in 2018 revenue versus 2017 was primarily due to higher profit sharing royalties as a result of stronger sales volumes and pricing of one of our products as well as increased manufacturing revenue. These increases were partially offset by decreased royalty revenue due to a change in the mix of generic and brand sales by another of our commercial partners. The increase in cost of sales of \$5.0 million was primarily due to changes in the product mix and expanded service and development capabilities as well as growth in manufacturing demand.

Research and Development. Our research and development expenses were \$4.4 million and \$4.5 million for the twelve months ended December 31, 2018 and 2017, respectively. The decrease of \$0.1 million in 2018 was primarily due to lower research and development costs to support commercial operations.

Selling, General and Administrative. Our selling, general and administrative expenses were \$14.4 million and \$14.3 million for the twelve months ended December 31, 2018 and 2017, respectively. The increase of \$0.1 million was primarily due to a \$1.0 million increase in administrative expenses and costs to build the business development team to support our new business growth and diversification efforts, which was partially offset by lower public company costs (including legal fees) of \$0.9 million.

Amortization of Intangible Assets. Amortization expense was \$2.6 million for the twelve months ended December 31, 2018 and 2017, which was exclusively related to the amortization of our royalties and contract manufacturing relationships intangible asset over its estimated useful life.

Interest Expense, net. Interest expense, net was \$8.1 million and \$11.7 million during the twelve months ended December 31, 2018 and 2017, respectively. The decrease in interest expense, net, was due to the refinancing of our prior credit agreement with OrbiMed in 2017, which resulted in a one-time charge totaling approximately \$6.8 million for fees related to early extinguishment of debt and the non-cash write-off of related deferred financing costs. This was partially offset by the higher principal balance on our

Athyrium senior secured term loan and amortization of the related financing costs in 2018 contributing to an increase in interest expense, net.

Income Tax Expense. Income tax expense from continuing operations was \$17.4 million and \$7.3 million for the twelve months ended December 31, 2018 and 2017, respectively. Income tax expense from continuing operations for the twelve months ended December 31, 2018 was attributable to the valuation allowance recorded during such period. Income tax expense from continuing operations for the twelve months ended December 31, 2017 primarily relates to the impact of the change in the U.S. tax rate due to the Tax Cuts and Jobs Act of 2017, which resulted in a non-cash adjustment of \$7.9 million for the remeasurement of the net deferred tax items using the recently enacted 21% statutory tax rate.

Liquidity and Capital Resources

As of December 31, 2019, we had \$19.1 million in cash and cash equivalents.

Since inception through December 31, 2019, we have financed our product development, operations and capital expenditures primarily from sales of equity and debt securities, including sales of our common stock with net proceeds of \$133.5 million, and term loans made under our previous and existing credit facilities, including our credit facility with Athyrium with an outstanding balance of \$125 million and contributions of excess cash flow. During the twelve months ended December 31, 2019, our capital expenditures were \$8.3 million, which increased primarily related to expansion of the capabilities to support anticipated new business activities.

We may require additional financing and may raise such additional funds through debt refinancing, bank or other loans, through strategic research and development, licensing, including out-licensing activities, sale of assets and/or marketing arrangements or through public or private sales of equity or debt securities from time to time. Financing may not be available on acceptable terms, or at all, and our failure to raise capital when needed could materially adversely impact our growth plans and our financial condition or results of operations. Additional debt or equity financing, if available, may be dilutive to the holders of our common stock and may involve significant cash payment obligations and covenants that restrict our ability to operate our business or access to capital.

On November 17, 2017, we entered into our credit agreement with Athyrium, pursuant to which we drew upon an initial \$60.0 million term loan. We used the proceeds from the initial term loan to (i) repay in full all outstanding indebtedness under our credit facility with OrbiMed of approximately \$31.7 million, which included the remaining debt principal balance of \$27.3 million and early termination charges of \$4.4 million and (ii) pay transaction fees associated with the credit facility with Athyrium of approximately \$4.2 million. In December 2018 we amended the credit agreement with Athyrium and drew upon a \$10.0 million term B-1 loan. In February 2019, we entered into a second amendment to the credit agreement with Athyrium pursuant to which the credit facility was (i) expanded from \$10.0 million to \$12.5.0 million and (ii) the two additional \$15.0 million tranches were restructured into a \$55.0 million term B-2 loan, which was funded on the date of execution of the Second Amendment, net of the original issue discount of \$11.4 million. Beginning on March 31, 2021, we must repay the outstanding principal amount in quarterly installments of \$3.0 million with the outstanding principal balance due on March 31, 2023. As of December 31, 2019, we had \$125.0 million outstanding principal under our credit agreement with Athyrium.

Sources and Uses of Cash

Cash provided by operations from continuing operations was \$16.2 million, \$11.0 million and \$19.1 million for the twelve months ended December 31, 2019, 2018 and 2017, respectively, which represents our operating income from continuing operations plus stock-based compensation, depreciation, non-cash interest expense, loss on early extinguishment of debt, changes in fair value of warrants and amortization of intangibles, as well as changes in operating assets and liabilities.

Cash used in investing activities from continuing operations was \$8.3 million, \$3.7 million and \$9.0 million for the twelve months ended December 31, 2019, 2018 and 2017, respectively, and reflected cash used for the purchase of short-term investments offset by maturities/redemption of investments and for the purchase of property and equipment.

There was \$26.0 million of cash provided by financing activities from continuing operations in the twelve months ended December 31, 2019 from net proceeds from issuance of long-term debt from Athyrium of \$43.6 million, and net proceeds of \$6.0 million from the exercise of options, which was partially offset by the contribution of \$19.0 million to Baudax Bio in connection with the Separation, deferred financing costs of \$2.9 million from the Athyrium transaction and \$1.7 million of payments of withholdings on shares withheld for income taxes. Cash provided by financing activities was \$27.7 million for the twelve months ended December 31, 2018 from continuing operations, from proceeds of shares of common stock through our Common Stock Purchase Agreement with Aspire Capital and proceeds of \$1.8 million from the exercise of options, which was partially offset by deferred financing costs of \$1.0 million. Cash provided by financing activities from continuing operations for the twelve months ended December 31, 2018 from continuing costs of \$1.0 million. Cash provided by financing activities from continuing operations and \$1.7 million for the twelve months ender the safe of shares of common stock through our Common Stock Purchase Agreement with Aspire Capital and proceeds of \$1.8 million from the exercise of options, which was partially offset by deferred financing costs of \$1.0 million. Cash provided by financing activities from continuing operations for the twelve months ended December 31, 2017 was \$23.9

million from proceeds from issuance of long-term debt from Athyrium of \$60 million, offset by repayment of long term debt for the payoff of the OrbiMed debt of \$27.3 million, fees related to early extinguishment of debt paid to OrbiMed of \$4.4 million and deferred financing costs from the Athyrium transaction of \$4.2 million.

Our future use of operating cash and capital requirements will depend on many forward-looking factors, including the following:

- the extent to which we in-license, acquire or invest in products, businesses and technologies;
- the timing and extent of our manufacturing and capital expenditures;
- our ability to maintain our relationships and contracts with our commercial partners;
- our ability to grow and diversify our business with new customers, including our ability to meet desired project outcomes with development customers;
- our ability to continue profitability;
- our ability to comply with stringent U.S. & foreign government regulation in the manufacture of pharmaceutical products, including cGMP and U.S. DEA requirements;
- · the extent to which we choose to establish collaboration, co-promotion, distribution or other similar agreements for product candidates;
- our ability to raise additional funds through equity or debt financings or sale of certain assets;
- the costs of preparing, submitting and prosecuting patent applications and maintaining, enforcing and defending intellectual property claims; and
- the effect of any changes in our effective tax rate due to changes in the mix of earnings in countries with differing statutory tax rates, changes in the valuation
 of deferred tax assets and liabilities and changes in tax laws.

We might use existing cash and cash equivalents on hand, additional debt, equity financing, sale of assets or out-licensing revenue or a combination thereof to fund our operations or product acquisitions. If we increase our debt levels, we might be restricted in our ability to raise additional capital and might be subject to financial and restrictive covenants. Our shareholders may experience dilution as a result of the issuance of additional equity or debt securities. This dilution may be significant depending upon the amount of equity or debt securities that we issue and the prices at which we issue any securities.

Contractual Commitments

The table below reflects our contractual commitments as of December 31, 2019:

	Payments Due by Period (in 000s)									
		Less than			More than		than			
Contractual Obligations		Total		1 year	1-	3 years	3-5	5 years	5 yea	ars
Long-Term Debt Obligations (1):										
Athyrium Debt	\$	126,250	\$		\$	126,250	\$	_	\$	_
Interest on Debt	\$	40,463		14,853		25,610		_		—
Purchase Obligations (2):	\$	5,593		4,196		1,397				_
Operating Leases (3)	\$	927		203		321		312		91
Other Long-Term Liabilities:										
Employment Agreements (4)	\$	1,018		1,018		—		—		—
Total Contractual Obligations	\$	174,251	\$	20,270	\$	153,578	\$	312	\$	91

(1) The long-term debt obligations consist of principal, an exit fee of 1% of the principal, and interest on the outstanding balance of \$125.0 million of our credit facility with Athyrium as of December 31, 2019. The debt bears interest at a rate of LIBOR plus 9.75% per annum. Due to fluctuations of the future LIBOR interest rate, it has been set at the rate as of December 31, 2019 to calculate the obligation. In accordance with U.S. GAAP, the future interest obligations are not



recorded on our Consolidated Balance Sheet. See Note 11 to the Consolidated Financial Statements included in this Annual Report on Form 10-K.

- (2) These obligations consist of cancelable and non-cancelable purchase commitments related to inventory, capital expenditures, transition services agreement costs, and other goods or services. In accordance with U.S. GAAP, these obligations are not recorded on our Consolidated Balance Sheets. See Note 12 to the Consolidated Financial Statements included in this Annual Report on Form 10-K.
- (3) We have become party to certain operating leases for the leased space in Gainesville, Georgia, as well as for office equipment, for which the minimum lease payments are presented. See Note 12(b) to the Consolidated Financial Statements included in this Annual Report on Form 10-K.
- (4) We have entered into employment agreements with certain of our named executive officers. As of December 31, 2019, these employment agreements provided for, among other things, annual base salaries in an aggregate amount of not less than this amount, from that date through calendar year 2020. In accordance with U.S. GAAP, these obligations are not recorded on our Consolidated Balance Sheets. See Note 12(d) to the Consolidated Financial Statements included in this Annual Report on Form 10-K.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements as defined in Item 303(a)(4) of Regulation S-K.

Critical Accounting Policies and Estimates

This management's discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which have been prepared in accordance with U.S. GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and the disclosure of contingent assets and liabilities in our consolidated financial statements. On an ongoing basis, we evaluate our estimates and judgments, including those related to accrued expenses, revenue recognition and stock-based compensation. We base our estimates on historical experience, known trends and events and various other factors that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Impairment of Goodwill- We are required to review, on an annual basis, the carrying value of goodwill to determine whether impairment may exist. For goodwill, the impairment model prescribes a one-step method for determining impairment. The one-step quantitative test calculates the amount of goodwill impairment as the excess of a reporting unit's carrying amount over its fair value, not to exceed the total amount of goodwill allocated to the reporting unit.

Impairment of Long-lived Assets—We are required to review the carrying value of long-lived fixed and amortizing intangible assets for recoverability whenever events occur or changes in circumstances indicate that the carrying amount of an asset or asset group may not be recoverable. The impairment test is a two-step test. Under step one we assess the recoverability of an asset (or asset group). The carrying amount of an asset (or asset group) is not recoverable if it exceeds the sum of the undiscounted cash flows expected from the use and eventual disposition of the asset (or asset group). The impairment loss is measured in step two as the difference between the carrying value of the asset (or asset group) and its fair value. Assumptions and estimates used in the evaluation of impairment are subjective and changes in these assumptions may negatively impact projected undiscounted cash flows, which could result in impairment charges in future periods. On an ongoing periodic basis, we evaluate the useful life of our long-lived assets and determine if any economic, governmental or regulatory event has modified their estimated useful lives.

Revenue Recognition— We generate revenues from manufacturing, packaging, research and development, and related services for multiple pharmaceutical companies. Our agreements with our commercial partners provide for manufacturing revenues, sales-based royalties and/or profit sharing components. Our revenue policies listed below are reflective of ASU 2014-09, which we adopted effective January 1, 2018. See Note 16 to the Consolidated Financial Statements included in this Form 10-K for additional information regarding our adoption of ASU 2014-09 and its impact on our financial statements.



Manufacturing and other related services revenue is recognized upon transfer of control of a product to a customer, generally upon shipment, based on a transaction price that reflects the consideration we expect to be entitled to as specified in the agreement with the commercial partner.

In addition to manufacturing and packaging revenue, certain customer agreements may have intellectual property sales-based royalties and/or profit sharing consideration, collectively referred to as royalties, computed on the net product sales of the commercial partner. Royalty revenues are generally recognized under the terms of the applicable license, development and/or supply agreement. For arrangements that include sales-based royalties where the license for intellectual property is deemed to be the predominant item to which the royalties relate, we recognize revenue when the related sales occur by the commercial partner. For arrangements that include sales-based royalties relate, we recognize revenue upon transfer of control of the manufactured product. In these cases, significant judgment is required to calculate this estimated variable consideration using the most-likely amount method based on historical customer pricing and deductions and is partially constrained due to items that are outside of our control including the uncertainty of the timing of future commercial partners.

Revenues related to research and development are generally recognized over-time as the related services or activities are performed using the output method and in accordance with the contract terms. In agreements which specify milestones, we evaluate whether the milestones are considered probable of being achieved and estimate the amount to be included in the transaction price using the most likely amount method. Milestone payments related to arrangements under which we have continuing performance obligations would be deferred and recognized over the period of performance. Milestone payments that are not within our control, such as submission for approval to regulators by a commercial partner or approvals from regulators, are not considered probable of being achieved until those submissions are submitted by the customer or approvals are received.

Income taxes - We use the asset and liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on differences between the financial statement carrying amount and the tax basis of assets and liabilities and are measured using enacted tax rates and laws that will be in effect when the differences are expected to reverse. We provide a valuation allowance when it is more-likely-than-not that deferred tax assets will not be realized.

On a periodic basis, we evaluate the realizability of our deferred tax assets and adjust such amounts in light of changing facts and circumstances, including but not limited to projections of future taxable income, the reversal of deferred tax liabilities, tax legislation, rulings by relevant tax authorities, tax planning strategies and the progress of ongoing tax examinations. As part of this evaluation, we consider whether it is more likely than not that all or some portion of the deferred tax asset will not be realized. The ultimate realization of a deferred tax asset is dependent upon the generation of future taxable income during the period in which the related temporary difference becomes deductible or the net operating loss, or NOL, and credit carryforwards can be utilized.

We maintain a full valuation allowance against our deferred tax assets where realizability is not certain. We periodically evaluate the likelihood of the realization of deferred tax assets and adjust the carrying amount of these deferred tax assets by a valuation allowance based on the anticipated realizability. The valuation allowance can be reversed if objective negative evidence in the form of cumulative losses is no longer present and additional weight is given to subjective evidence, such as our projection of future growth. This determination depends on a variety of factors, some of which are subjective, including our current year taxable income in the United States, expectations of future taxable income, impact of tax reform, achievement of milestones, carryforward periods available to us for tax reporting purposes, various income tax strategies and other relevant factors. If we determine that the deferred tax assets realizability is impacted, we would record material changes to income tax expense in that period.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risks in the ordinary course of our business. These market risks are principally limited to interest rate fluctuations. At December 31, 2019, we had approximately \$11.6 million invested in money market instruments. We believe our policy of investing in highly-rated securities, whose liquidities are, at December 31, 2019, all less than two months, minimizes such risks. Due to the short-term duration of our investment portfolio and the low-risk profile of our investments, an immediate 10.0% change in interest rates would not have a material effect on the fair market value of our portfolio. Accordingly, we would not expect our operating results or cash flows to be affected to any significant degree by the effect of a sudden change in market interest rates on our investment portfolio. We do not enter into investments for trading or speculative purposes. Our Athyrium secured term loan interest expense is based on the current committed rate of three-month LIBOR plus 9.75% with a 1.0% LIBOR floor. A fluctuation in LIBOR of 0.25% would result in a charge of \$0.3 million of interest expense over a twelve-month period.

Item 8. Financial Statements and Supplementary Data

Our consolidated financial statements and the report of our independent registered public accounting firm are included in this Annual Report on Form 10-K on the pages indicated in Part IV, Item 15.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosures

None.

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act) as of December 31, 2019. We maintain disclosure controls and procedures that are designed to provide reasonable assurance that information required to be disclosed in our reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow for timely decisions regarding required disclosure.

A control system, no matter how well conceived and operated, can provide only reasonable, and not absolute, assurance that the objectives of the control system will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected. However, our disclosure controls and procedures are designed to provide reasonable assurance of achieving their objectives. Based on the evaluation of our disclosure controls and procedures as of December 31, 2019, our principal executive officer and principal financial officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process designed to provide reasonable assurance of the reliability of financial reporting and of the preparation of financial statements for external reporting purposes, in accordance with U.S. generally accepted accounting principles.

Internal control over financial reporting includes policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and disposition of assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with the authorization of its management and directors; and (3) provide reasonable assurance regarding the prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on its financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of the 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 and procedures included in such controls may deteriorate.

Our management has assessed the effectiveness of our internal control over financial reporting as of December 31, 2019. In making this assessment, management used the criteria established by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control – Integrated Framework (2013). These criteria are in the areas of control environment, risk assessment, control activities, information and communication, and monitoring. Management's assessment included extensive documentation, evaluating and testing the design and operating effectiveness of its internal controls over financial reporting.

Based on management's processes and assessment, as described above, management has concluded that, as of December 31, 2019, our internal control over financial reporting was effective.

KPMG LLP, our independent registered public accounting firm, issued an attestation report on our internal control over financial reporting, which is included starting on page F-3 of the financial statements included in this Annual Report on Form 10-K.



Changes in Internal Control over Financial Reporting

There has been no change in our internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during our most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting. Subsequent to the Separation on November 21, 2019, we rely on certain financial information and resources of Baudax Bio to manage specific aspects of our business and report results in accordance with a transition services agreement. These include investor relations, corporate communications, accounting, tax, legal, human resources, benefit plan administration, benefit plan reporting, general management, real estate, treasury, insurance and risk management. We continue to review our internal controls over financial reporting, and may from time to time make changes aimed at enhancing their effectiveness. These efforts may lead to changes in our internal controls over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

Information with respect to this item will be set forth in the Proxy Statement for the 2018 Annual Meeting of Shareholders, or the Proxy Statement, under the headings "Board of Directors," "Executive Officers," "Section 16(a) Beneficial Ownership Reporting Compliance," and "Corporate Governance and Risk Management" and is incorporated herein by reference. The Proxy Statement will be filed with the SEC within 120 days after the end of the fiscal year covered by this Annual Report.

Item 11. Executive Compensation

Information with respect to this item will be set forth in the Proxy Statement under the headings "Director Compensation," "Executive Compensation," and "Corporate Governance and Risk Management" is incorporated herein by reference. The Proxy Statement will be filed with the SEC within 120 days after the end of the fiscal year covered by this Annual Report.

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

Information with respect to this item will be set forth in the Proxy Statement under the headings "Security Ownership of Directors, Certain Beneficial Owners and Management," "Executive Compensation," and "Director Compensation," and is incorporated herein by reference. The Proxy Statement will be filed with the SEC within 120 days after the end of the fiscal year covered by this Annual Report.

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

Information with respect to this item will be set forth in the Proxy Statement under the headings "Certain Relationships and Related Party Transactions" and "Corporate Governance and Risk Management" and is incorporated herein by reference. The Proxy Statement will be filed with the SEC within 120 days after the end of the fiscal year covered by this Annual Report.

Item 14. Principal Accounting Fees and Services

Information with respect to this item will be set forth in the Proxy Statement under the heading "Independent Registered Public Accounting Firm," and is incorporated herein by reference. The Proxy Statement will be filed with the SEC within 120 days after the end of the fiscal year covered by this Annual Report.



PART IV

Item 15. Exhibits, Consolidated Financial Statement Schedules

(a)(1) Consolidated Financial Statements.

The following consolidated financial statements are filed as a part of this Annual Report on Form 10-K:

Consolidated Financial Statements

Reports of Independent Registered Public Accounting Firm

Consolidated Balance Sheets as of December 31, 2019 and 2018

Consolidated Statements of Operations and Comprehensive Loss for the years ended December 31, 2019, 2018 and 2017

Consolidated Statements of Shareholders' Equity for the years ended December 31, 2019, 2018 and 2017

Consolidated Statements of Cash Flows for the years ended December 31, 2019, 2018 and 2017

(a)(2) Consolidated Financial Statement Schedules.

Not applicable.

(a)(3); (b) Exhibits:

Exhibit No.	Description	Method of Filing
2.1	Separation Agreement dated as of November 20, 2019 by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Incorporated herein by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed on November 26, 2019 (File No. 001-36329).
3.1	Second Amended and Restated Articles of Incorporation of Recro Pharma, Inc.	Incorporated herein by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on March 13, 2014 (File No. 001-36329).
3.2	Third Amended and Restated Bylaws of Recro Pharma, Inc.	Incorporated herein by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K filed on March 13, 2014 (File No. 001-36329).
4.1	Specimen certificate evidencing shares of common stock.	Incorporated herein by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-1/A filed on December 20, 2013 (File No. 333-191879).
4.2	Form of IPO Warrant.	Incorporated herein by reference to Exhibit A of Exhibit 1.1 to the Company's Registration Statement on Form S-1/A filed on February 11, 2014 (File No. 333-191879).
4.3†	Common Stock Purchase Warrant, dated November 17, 2017, in favor of Athyrium Opportunities III Acquisition LP.	Incorporated herein by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K filed on November 20, 2017 (File No. 001-36329).
4.4†	Common Stock Purchase Warrant, dated November 17, 2017, in favor of Athyrium Opportunities II Acquisition LP.	Incorporated herein by reference to Exhibit 4.2 to the Company's Current Report on Form 8-K filed on November 20, 2017 (File No. 001-36329).
4.5	Registration Rights Agreement, dated March 2, 2018, by and between Recro Pharma, Inc. and Aspire Capital Fund, LLC.	Incorporated herein by reference to Exhibit 4.8 to the Company's Annual Report on Form 10-K filed on March 2, 2018 (File No. 001-36329).

Exhibit No.	Description	Method of Filing
4.6	Registration Rights Agreement, dated February 19, 2019, by and between Recro Pharma, Inc. and Aspire Capital Fund, LLC.	Incorporated herein by reference to Exhibit 4.8 to the Company's Annual Report on Form 10-K filed on February 19, 2019 (File No. 001-36329).
4.7	Description of Securities	Filed herewith.
10.1†	Tax Matters Agreement, dated as of November 20, 2019, by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on November 26, 2019 (File No. 001-36329).
10.2†	Employee Matters Agreement, dated as of November 20, 2019, by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Incorporated herein by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed on November 26, 2019 (File No. 001-36329).
10.3†	Transition Services Agreement, dated as of November 20, 2019, by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Incorporated herein by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed on November 26, 2019 (File No. 001-36329).
10.4•	Partial Assignment, Assumption and Bifurcation Agreement, dated as of November 20, 2019, by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Incorporated herein by reference to Exhibit 10.4 to the Company's Current Report on Form 8-K filed on November 26, 2019 (File No. 001-36329).
10.5•	Employee Matters Agreement, dated February 12, 2020, by and between Recro Pharma, Inc. and Baudax Bio, Inc.	Filed herewith.
10.6•	Asset Transfer and License Agreement, dated April 10, 2015, between Alkermes Pharma Ireland Limited and DV Technology, Inc.	Incorporated herein by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q filed on May 12, 2015 (File No. 001-36329).
10.7•	Amendment to Asset Transfer and License Agreement, dated December 23, 2015, between Alkermes Pharma Ireland Limited and Recro Gainesville LLC.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on December 23, 2015 (File No. 001-36329).
10.8•	Second Amendment to Asset Transfer and License Agreement, dated December 20, 2018, between Alkermes Pharma Ireland Limited and Recro Gainesville LLC.	Incorporated herein by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed on December 28, 2018 (File No. 001-36329).
10.9•	Recro Pharma, Inc. 2018 Amended and Restated Equity Incentive Plan.	Incorporated herein by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed on May 9, 2018 (File No. 001-36329).
10.10•	2008 Stock Option Plan.	Incorporated herein by reference to Exhibit 10.10 to the Company's Registration Statement on Form S-1/A filed on November 29, 2013 (File No. 333-191879).
10.11•	Form of 2008 Stock Option Plan Award Agreement.	Incorporated herein by reference to Exhibit 10.11 to the Company's Registration Statement on Form S-1/A filed on November 29, 2013 (File No. 333-191879).
10.12•	Form of Equity Incentive Plan Award Agreement.	Incorporated herein by reference to Exhibit 10.14 to the Company's Annual Report on Form 10-K filed on March 25, 2015 (File No. 001-36329).
10.13•	Form of Recro Pharma, Inc. Amended and Restated Equity Incentive Plan Award Agreement for Restricted Stock Units.	Incorporated herein by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K on December 22, 2015 (File No. 001-36329).
10.14•	Form of Award Agreement for Option Inducement Awards	Incorporated herein by reference to Exhibit 10.1 to the Company's Registration Statement on Form S-8 filed on December 23, 2015 (File No. 333-208750).
10.15•	Form of Award Agreement for Restricted Stock Unit Inducement Awards	Incorporated herein by reference to Exhibit 10.20 to the Company's Annual Report on Form 10-K filed on March 2, 2018 (File No. 001-36329).
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Exhibit No.	Description	Method of Filing
10.16†	Amended and Restated License and Supply Agreement, dated June 26, 2003, by and among Elan Corporation, plc (predecessor-in-interest to Recro Gainesville LLC) and Watson Laboratories, Inc.	Incorporated herein by reference to Exhibit 10.6 to the Company's Quarterly Report on Form 10-Q filed on August 14, 2015 (File No. 001-36329).
10.17	Supplemental Agreement, dated December 8, 2004, to Amended and Restated License and Supply Agreement, dated June 26, 2003, by and among Elan Corporation, plc (predecessor-in-interest to Recro Gainesville LLC) and Watson Laboratories, Inc.	Incorporated herein by reference to Exhibit 10.7 to the Company's Quarterly Report on Form 10-Q filed on August 14, 2015 (File No. 001-36329).
10.18	Supplemental Agreement No. 2, dated January 17, 2014, to Amended and Restated License and Supply Agreement, dated June 26, 2003, by and among Elan Corporation, plc (predecessor-in-interest to Recro Gainesville LLC) and Watson Laboratories, Inc.	Incorporated herein by reference to Exhibit 10.8 to the Company's Quarterly Report on Form 10-Q filed on August 14, 2015 (File No. 001-36329).
10.19†	Supplemental Agreement No. 3, dated April 15, 2019, to Amended and Restated License and Supply Agreement, dated June 26, 2003, by and among Elan Corporation, plc (predecessor-in-interest to Recro Gainesville LLC) and Watson Laboratories, Inc.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on April 18, 2019 (File No. 001-36329).
10.20†	Credit Agreement, dated as of November 17, 2017, by and between Recro Pharma, Inc. and Athyrium Opportunities III Acquisition LP. *	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on November 20, 2017 (File No. 001-36329).
10.21	First Amendment to Credit Agreement and Investment Documents, dated as of December 28, 2018, by and between Recro Pharma, Inc. and Athyrium Opportunities III Acquisition LP.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on January 4, 2019 (File No. 001-36329).
10.22	Second Amendment to Credit Agreement and Investment Documents, dated as of February 28, 2019, by and between Recro Pharma, Inc. and Athyrium Opportunities III Acquisition LP.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on March 4, 2019 (File No. 001-36329).
10.23	Third Amendment to Credit Agreement and Release Agreement, dated as of October 22, 2019, by and between Recro Pharma, Inc. and Athyrium Opportunities III Acquisition LP.	Incorporated herein by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed on November 8, 2019 (File No. 001-36329).
10.24	Security Agreement, dated as of November 17, 2017, by Recro Pharma, Inc. in favor of Athyrium Opportunities III Acquisition LP.	Incorporated herein by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed on November 20, 2017 (File No. 001-36329).
10.25	Sales Agreement, dated as of December 29, 2017, by and between Recro Pharma, Inc. and Cowen and Company, LLC.	Incorporated herein by reference to Exhibit 1.1 to the Company's Current Report on Form 8-K filed on December 29, 2017 (File No. 001-36329).
10.26	Common Stock Purchase Agreement, dated March 2, 2018, by and between Recro Pharma, Inc. and Aspire Capital Fund, LLC.	Incorporated herein by reference to Exhibit 10.38 to the Company's Annual Report on Form 10-K filed on March 2, 2018 (File No. 001-36329).
10.27	Common Stock Purchase Agreement, dated February 19, 2019, by and between Recro Pharma, Inc. and Aspire Capital Fund, LLC	Incorporated herein by reference to Exhibit 10.34 to the Company's Annual Report on Form 10-K filed on February 19, 2019 (File No. 001-36329).
10.28†	Manufacturing and Supply Agreement, dated as of February 8, 2019, by and between Recro Gainesville LLC and Novartis Pharma AG.	Incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K/A filed on March 6, 2019 (File No. 001-3632).
10.29	License and Supply Agreement, dated as of January 1, 2014, by and between Alkermes Pharma Ireland Limited and Kremers Urban Pharmaceuticals, Inc.	Filed herewith.

Exhibit No.	Description	Method of Filing
10.30	Amendment No. 1 to License and Supply Agreement, dated as of	Filed herewith
	September 6, 2018, by and between Recro Gainesville LLC and Kremers Urban Pharmaceuticals, Inc.	
	<u>namaccuttais, ne</u> .	
21.1	Subsidiaries of Recro Pharma, Inc.	Filed herewith.
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm.	Filed herewith.
31.1	Rule 13a-14(a)/15d-14(a) certification of Principal Executive Officer.	Filed herewith.
31.2	Rule 13a-14(a)/15d-14(a) certification of Principal Financial Officer.	Filed herewith.
32.1	Section 1350 certification, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	Filed herewith.
101 INS	XBRL Instance Document.	Filed herewith.
101 SCH	XBRL Taxonomy Extension Schema.	Filed herewith.
101 CAL	XBRL Taxonomy Extension Calculation Linkbase.	Filed herewith.
101 DEF	XBRL Taxonomy Extension Definition Linkbase.	Filed herewith.
101 LAB	XBRL Taxonomy Extension Label Linkbase.	Filed herewith.
101 PRE	XBRL Taxonomy Extension Presentation Linkbase Document.	Filed herewith.
• Manage	ement contract or compensatory plan or arrangement.	
† Portio	ns of this exhibit (indicated by asterisks) have been omitted pursuant to a request for co	nfidential treatment pursuant to Rule 406 under the Securities Act of

Portions of this exhibit (indicated by asterisks) have been omitted pursuant to a request for confidential treatment pursuant to Rule 406 under the Securities Act of 1933.

(c) Not applicable

Item 16. Form 10-K Summary

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: March 4, 2020

RECRO PHARMA, INC.

By: <u>/s/ Gerri A. Henwood</u> Gerri A. Henwood Chief Executive Officer

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

Signature	Title	Date
/s/ Gerri A. Henwood Gerri A. Henwood	President, Chief Executive Officer and Director (Principal Executive Officer)	March 4, 2020
/s/ Ryan D. Lake Ryan D. Lake	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	March 4, 2020
/s/ Arnaud Ajdler Arnaud Ajdler	Director	March 4, 2020
/s/ Alfred Altomari Alfred Altomari	Director	March 4, 2020
/s/ William L. Ashton William L. Ashton	Director	March 4, 2020
/s/ Michael Berelowitz Michael Berelowitz	Director	March 4, 2020
/s/ Winston J. Churchill Winston J. Churchill	Director	March 4, 2020
/s/ Bryan M. Reasons Bryan M. Reasons	Director	March 4, 2020
/s/ Wayne B. Weisman Wayne B. Weisman	Director	March 4, 2020



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Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors Recro Pharma, Inc.:

Opinion on the Consolidated Financial Statements

We have audited the accompanying consolidated balance sheets of Recro Pharma, Inc. and subsidiaries (the Company) as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive loss, shareholders' equity, and cash flows for each of the years in the three year period ended December 31, 2019, and the related notes (collectively, the consolidated financial statements). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the years in the three year period ended December 31, 2019, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission, and our report dated March 4, 2020 expressed an unqualified opinion on the effectiveness of the Company's internal control over financial reporting.

Changes in Accounting Principle

As discussed in Note 2 to the consolidated financial statements, the Company has changed its method of accounting for leases as of January 1, 2019 due to the adoption of Accounting Standards Update (ASU) No. 2016-02, Leases (Topic 842) and ASU No. 2018-11, Leases (Topic 842), Targeted Improvements.

As discussed in Note 2 to the consolidated financial statements, the Company has changed its method of accounting for revenue as of January 1, 2018 due to the adoption of Accounting Standards Update (ASU) No. 2014-09, *Revenue from Contracts with Customers* (Topic 606).

Basis for Opinion

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We are a public accounting firm registered with the 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 consolidated financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the consolidated 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 consolidated 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 consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ KPMG LLP

We have served as the Company's auditor since 2009.

Philadelphia, Pennsylvania March 4, 2020



Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors Recro Pharma, Inc.:

Opinion on Internal Control Over Financial Reporting

We have audited Recro Pharma, Inc. and subsidiaries' (the Company) internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission. In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control – Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive loss, shareholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2019, and the related notes (collectively, the consolidated financial statements), and our report dated March 4, 2020 expressed an unqualified opinion on those consolidated financial statements.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting firm registered with the 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 audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

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

/s/ KPMG LLP

Philadelphia, Pennsylvania March 4, 2020

Consolidated Balance Sheets

(amounts in thousands, except share and per share data)	Dece	mber 31, 2019	December 31, 2018		
Assets					
Current assets:					
Cash and cash equivalents	\$	19,148	\$	38,514	
Accounts receivable		14,389		12,866	
Contract asset		8,851		5,201	
Inventory		15,072		10,699	
Prepaid expenses and other current assets		2,700		1,795	
Current assets of discontinued operation				2,066	
Total current assets		60,160		71,141	
Property, plant and equipment, net		42,212		41,700	
Right of use asset		485		_	
Intangible assets, net		3,283		5,866	
Goodwill		4,319		4,319	
Non-current assets of discontinued operation				32,467	
Total assets	\$	110,459	\$	155,493	
Liabilities and Shareholders' Equity					
Current liabilities:					
Accounts payable	\$	989	\$	2,160	
Accrued expenses and other current liabilities		4,176		5,597	
Current portion of operating lease liability		148		_	
Current liabilities of discontinued operation		1,172	_	21,273	
Total current liabilities		6,485		29,030	
Long-term debt, net		110,319		64,243	
Warrants and other long-term liabilities		_		1,131	
Long-term portion of operating lease liability		367		_	
Non-current liabilities of discontinued operation		_		80,589	
Total liabilities		117,171		174,993	
Commitments and contingencies (Note 12)					
Shareholders' equity:					
Preferred stock, \$0.01 par value. Authorized, 10,000,000 shares; none issued and outstanding		_			
Common stock, \$0.01 par value. Authorized, 50,000,000 shares; issued and outstanding, 23,312,928 shares at December 31, 2019 and 21,799,961 shares at					
December 31, 2018		233		218	
Additional paid-in capital		199,938		168,535	
Accumulated deficit		(206,883)		(188,253	
Total shareholders' equity (deficit)		(6,712)	-	(19,500	
Total liabilities and shareholders' equity	\$	110,459	\$	155,493	

See accompanying notes to consolidated financial statements.

Consolidated Statements of Operations and Comprehensive Loss

	For the Year ended December 31,							
(amounts in thousands, except share and per share data)		2019	2018		2017			
Revenue	\$	99,219	\$	77,347	\$	71,834		
Operating expenses:								
Cost of sales (excluding amortization of intangible assets)		50,981		43,160		38,193		
Research and development				4,402		4,460		
Selling, general and administrative		19,909		14,437		14,324		
Amortization of intangible assets		2,583		2,583		2,583		
Change in warrant valuation		2,116	_	284	_	9		
Total operating expenses		75,589		64,866		59,569		
Operating income from continuing operations		23,630		12,481		12,265		
Other income (expense):								
Interest income		801		643		369		
Interest expense		(19,806)		(8,756)		(12,034)		
Income from continuing operations before income taxes		4,625		4,368		600		
Income tax expense		_		(17,436)		(7,317)		
Net income (loss) from continuing operations		4,625		(13,068)		(6,717)		
Loss on discontinued operation, net of income taxes		(23,255)		(66,655)		(43,365)		
Net loss	\$	(18,630)	\$	(79,723)	\$	(50,082)		
Per share information:								
Net income (loss) per share from continuing operations, basic	\$	0.21	\$	(0.64)	\$	(0.35)		
Net loss per share from discontinued operations, basic	\$	(1.04)	\$	(3.26)	\$	(2.28)		
Net loss per share, basic	\$	(0.83)	\$	(3.90)	\$	(2.63)		
Weighted average common shares outstanding, basic		22,414,194		20,465,106		19,070,983		
			_	· · · · ·		<u> </u>		
Net income (loss) per share from continuing operations, diluted	\$	0.20	\$	(0.64)	\$	(0.35)		
Net loss per share from discontinued operations, diluted	\$	(0.99)	\$	(3.26)	\$	(2.28)		
Net loss per share, diluted	\$	(0.79)	\$	(3.90)	\$	(2.63)		
Weighted average common shares outstanding, diluted		23,608,862		20,465,106		19,070,983		
Net loss	\$	(18,630)	\$	(79,723)	\$	(50,082)		
Other comprehensive loss:								
Unrealized gain (loss) on available-for-sale securities				1		(1)		
Comprehensive loss	\$	(18,630)	\$	(79,722)	\$	(50,083)		
	φ	(10,050)	Ψ	(,,,,,,,,,)	Ψ	(30,005)		

See accompanying notes to consolidated financial statements.

Consolidated Statements of Shareholders' Equity

For the Years Ended December 31, 2019, 2018 and 2017

	Comm	on Stock	ι	Additional			Accumulated other			
(amounts in thousands, except share data)	Shares		Amount	paid-in capital	Accum Defi		comprehe loss			Total
Balance, December 31, 2016	19,043,216	\$	190	\$ 132,691	\$	61,266)	\$	_	\$	71,615
Stock-based compensation expense	_		_	5,546		_		_		5,546
Stock option exercise	7,756		_	53		_				53
Issuance of restricted stock units, net of shares withheld for income taxes	76,463		1	(250)		_		_		(249)
Warrants issued in financing facility, net of related tax effect	_		_	1,966		_		_		1,966
Other comprehensive loss	_		_	_		_		(1)		(1)
Net loss	_		_	_	(50,082)		_		(50,082)
Balance, December 31, 2017	19,127,435		191	140,006	(1	11,348)		(1)		28,848
Stock-based compensation expense	_		_	7,129		_				7,129
Stock option exercise	352,025		4	1,811		_				1,815
Issuance of restricted stock units, net of shares withheld for income taxes	122,746		1	(92)		_		_		(91)
Sale of common stock under equity	, · · ·									(*)
facility, net of transaction costs	1,983,040		20	17,005				_		17,025
Cashless exercise of warrants	214,715		2	2,587						2,589
Revaluation of equity classified										
warrants	—		—	89		—		_		89
Change in other comprehensive loss	_					_		1		1
Net loss	_		_		(79,723)		_		(79,723)
Cumulative effect of adoption of new accounting standards, net of tax	_		_			2,818				2,818
Balance, December 31, 2018	21,799,961		218	 168,535	(1	88,253)		_	-	(19,500)
Stock-based compensation expense				9,094				_		9,094
Stock option exercise	863,952		9	5,994		_		_		6,003
Issuance of restricted stock units, net of shares withheld for income taxes	429.926		4	(1,681)						(1,677)
Issuance of common stock for equity	429,920		4	(1,001)		_		_		(1,077)
facility	34,762		_	301		—		_		301
Separation of Baudax Bio, Inc.	—		—	14,480		—		—		14,480
Cashless exercise of warrants	184,327		2	3,215		—		—		3,217
Net loss				 		18,630)				(18,630)
Balance, December 31, 2019	23,312,928	\$	233	\$ 199,938	\$ (2	06,883)	\$		\$	(6,712)

See accompanying notes to consolidated financial statements.

Consolidated Statements of Cash Flows

(amounts in thousands)		2019		2018	2017
Cash flows from operating activities, continuing operations:					
Net loss	\$	(18,630)	\$	(79,723) \$	(50,082
Loss on discontinued operations, net of income taxes		23,255		66,655	43,365
Adjustments to reconcile net income (loss) from continuing operations to net cash provided by		,		,	,
operating activities from continuing operations:					
Stock-based compensation		6,191		4,279	4,173
Non-cash interest expense		5,412		1,287	912
Depreciation expense		5,817		4,872	4,79
Loss on early extinguishment of debt					6,772
Amortization of intangible assets		2,583		2,583	2,58
Change in warrant valuation		2,116		284	(
Deferred income taxes				17,637	7,50
Changes in operating assets and liabilities:				-,,	.,
Inventory		(4,373)		(860)	(1,093
Contract asset		(3,650)		(1,446)	(1,0).
Prepaid expenses and other current assets		(604)		(508)	(243
Right of use asset		207		(500)	(21:
Accounts receivable		(1,523)		(3,180)	725
Accounts payable, accrued expenses and other liabilities		(364)		(858)	(352
Operating lease liability		(213)		(050)	(55)
Net cash provided by operating activities, continuing operations		16,224		11,022	19,074
		10,224		11,022	19,072
Cash flows from investing activities, continuing operations:		(0.242)		(7.100.)	(5.40)
Purchases of property and equipment		(8,342)		(7,198)	(5,403
Purchases of short-term investments		(12,100)		(6,225)	(57,124
Proceeds from maturity of investments		12,100		9,750	53,500
Net cash used in investing activities, continuing operations		(8,342)		(3,673)	(9,02)
Cash flows from financing activities, continuing operations:					
Cash contribution to Baudax Bio, Inc.		(19,000)		—	_
Proceeds from issuance of long-term debt, net of original issue discount of \$11,400		43,600		10,000	60,000
Payments on long-term debt		_		_	(27,34)
Fees related to early extinguishment of debt				_	(4,420
Payment of deferred financing costs		(2,936)		(961)	(4,178
Proceeds from sale of common stock, net of transaction costs				16,965	
Payments of withholdings on shares withheld for income taxes		(1,676)		(91)	(250
Proceeds from option exercises		6,003		1,815	53
Net cash provided by financing activities, continuing operations		25,991		27,728	23,858
Net increase in cash and cash equivalents from continuing operations		33,873		35,077	33,905
Discontinued operations:		55,675		55,077	55,70.
Cash flows used in operating activities		(41,721)		(54,137)	(36,117
Cash flows used in investing activities		(1,518)		(3,410)	(1,28)
		· · · · ·		(3,410)	(1,20)
Cash flows used in financing activities		(10,000)		(57 5 47)	(27.40
Net decrease in cash and cash equivalents from discontinued operations		(53,239)	_	(57,547)	(37,404
Cash and cash equivalents, beginning of year	<u>_</u>	38,514		60,984	64,483
Cash and cash equivalents, end of year	\$	19,148	\$	38,514 \$	60,984

Cash paid for interest	\$ 14,395	\$ 8,134	\$ 5,341
Cash paid for taxes	\$ 	\$ 	\$ 467
Purchase of property, plant and equipment included in accrued expenses			
and accounts payable	\$ 288	\$ 2,301	\$ 235
Common stock issued in connection with equity facility	\$ 301	\$ 357	\$ _
Amortization of deferred equity costs	\$ _	\$ 332	\$ _
Fair value recognized for warrants	\$ _	\$ 89	\$ 2,143
See accompanying notes to consolidated financial statements.			

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

(1) Background

Recro Pharma, Inc., or the Company, was incorporated in Pennsylvania on November 15, 2007. The Company is a leading contract development and manufacturing organization, or CDMO, with integrated solutions for the development, formulation, regulatory support, manufacturing, and packaging of oral solid dose drug products. It leverages its formulation and development expertise to develop and manufacture pharmaceutical products using proprietary delivery technologies and know-how for commercial partners who commercialize or plan to commercialize these products.

In November 2019, the Company's former Acute Care business was spun-out through its former wholly-owned subsidiary, Baudax Bio, Inc., or Baudax Bio, when the Company completed a special dividend distribution of all the outstanding shares of common stock of Baudax Bio to its shareholders. See Note 4 to the consolidated financial statements for additional information on the spin-off of Baudax Bio.

The Company has incurred losses from operations since inception and has an accumulated deficit of \$206,883 as of December 31, 2019, which is mostly related to activities that are presented as discontinued operations upon completion of the spin-off as Baudax Bio. The Company's future operations are highly dependent on the continued profitability of its manufacturing operations. Management believes that it is probable that the Company will be able to meet its obligations as they become due within one year after the date the financial statements are issued.

(2) Summary of Significant Accounting Principles

(a) Basis of Presentation and Principles of Consolidation

The accompanying consolidated financial statements of the Company and its subsidiaries have been prepared in accordance with U.S. generally accepted accounting principles, or U.S. GAAP. The Company's consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. All intercompany accounts and transactions have been eliminated.

(b) Use of Estimates

The preparation of financial statements and the notes to the financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from such estimates.

(c) Cash and Cash Equivalents

Cash and cash equivalents represents cash in banks and highly liquid short-term investments that have maturities of three months or less when acquired. These highly liquid, short-term investments are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of the changes in interest rates.

(d) Property and Equipment

Property and equipment are recorded at cost less accumulated depreciation and amortization. Depreciation and amortization are computed using the straight-line method over the estimated useful lives of the assets, which are as follows: three to ten years for furniture and office equipment; six to ten years for manufacturing equipment; two to five years for vehicles; 35 to 40 years for buildings; and the shorter of the lease term or useful life for leasehold improvements. Repairs and maintenance cost are expensed as incurred.

(e) Business Combinations

In accordance with Financial Accounting Standards Board, or FASB, Accounting Standards Codification, or ASC, Topic 805, "*Business Combinations*," or ASC 805, the Company allocates the purchase price of acquired companies to the tangible and intangible assets acquired and liabilities assumed based on their estimated fair values. Valuations are performed to assist in determining the fair values of assets acquired and liabilities assumed, which requires management

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

to make significant estimates and assumptions, in particular with respect to intangible assets. Management makes estimates of fair value based upon assumptions believed to be reasonable. These estimates are based in part on historical experience and information obtained from management of the acquired companies and expectations of future cash flows. Transaction costs and restructuring costs associated with the transaction are expensed as incurred.

(f) Goodwill and Intangible Assets

Goodwill represents the excess of purchase price over the fair value of net assets acquired by the Company. Goodwill is not amortized, but assessed for impairment on an annual basis or more frequently if impairment indicators exist. The impairment model prescribes a one-step method for determining impairment.

The one-step quantitative test calculates the amount of goodwill impairment as the excess of a reporting unit's carrying amount over its fair value, not to exceed the total amount of goodwill allocated to the reporting unit.

Intangible assets include the Company's royalties and contract manufacturing relationships assets. The royalties and contract manufacturing relationships intangible asset is considered a definite-lived intangible asset and is amortized on a straight-line basis over a useful life of six years. The Company is required to review the carrying value of amortizing intangible assets for recoverability whenever events occur or changes in circumstances indicate that the carrying amount of an asset or asset group may not be recoverable. There were no triggering events as of December 31, 2019.

The Company performs its annual goodwill impairment test as of November 30th, or whenever an event or change in circumstances occurs that would require reassessment of the recoverability of goodwill. In performing the evaluation, the Company assesses qualitative factors such as overall financial performance, anticipated changes in industry and market conditions, including recent tax reform, and competitive environments. The Company performed its impairment test as of November 30, 2019 and noted there have been no triggering events or indicators of impairment as of December 31, 2019. As a result of the impairment test, the Company determined that there was no impairment to goodwill for the year ended December 31, 2019.

(g) Revenue Recognition

The Company generates revenues from manufacturing, packaging, research and development, and related services for multiple pharmaceutical companies. The agreements that the Company has with its commercial partners provide for manufacturing revenues, sales-based royalties and/or profit sharing components. The Company's revenue policies listed below are reflective of Accounting Standards Update, or ASU, No. 2014-09, "*Revenue from Contracts with Customers*," or ASU 2014-09, which the Company adopted effective January 1, 2018. See Note 16 for additional information regarding the Company's adoption of ASU 2014-09 and its impact on the Company's financial statements.

Manufacturing and other related services revenue is recognized upon transfer of control of a product to a customer, generally upon shipment, based on a transaction price that reflects the consideration the Company expects to be entitled to as specified in the agreement with the commercial partner, which could include pricing and volume-based adjustments.

In addition to manufacturing and packaging revenue, certain customer agreements may have intellectual property sales-based royalties and/or profit sharing consideration, collectively referred to as royalties, computed on the net product sales of the commercial partner. Royalty revenues are generally recognized under the terms of the applicable license, development and/or supply agreement. For arrangements that include sales-based royalties where the license for intellectual property is deemed to be the predominant item to which the royalties relate, the Company recognizes revenue when the related sales occur by the commercial partner. For arrangements that include sales-based royalties where the license for intellectual property is not deemed to be the predominant item to which the royalties relate, the Company recognizes revenue upon transfer of control of the manufactured product. In these cases, significant judgment is required to calculate this estimated variable consideration using the most-likely amount method based on historical customer pricing and deductions and is partially constrained due to items that are outside of the Company's control including the uncertainty of the timing of future commercial partner sales, mix of volume, customer stocking and ordering patterns, as well as unforeseen price adjustments made by the Company's commercial partners.

Revenues related to research and development are generally recognized over-time as the related services or activities are performed using the output method and in accordance with the contract terms. In agreements which specify milestones, the Company evaluates whether the milestones are considered probable of being achieved and estimates the amount to be



Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

included in the transaction price using the most likely amount method. Milestone payments related to arrangements under which the Company has continuing performance obligations would be deferred and recognized over the period of performance. Milestone payments that are not within the control of the Company, such as submission for approval to regulators by a commercial partner or approvals from regulators, are not considered probable of being achieved until those submissions are submitted by the customer or approvals are received.

(h) Concentration of Credit Risk

Financial instruments that potentially subject the Company to significant concentration of credit risk consist primarily of cash, cash equivalents and accounts receivable. The Company manages its cash and cash equivalents based on established guidelines relative to diversification and maturities to maintain safety and liquidity.

The Company's accounts receivable balances are concentrated amongst approximately four customers and if any of these customers' receivable balances should be deemed uncollectible, it could have a material adverse effect on the Company's results of operations and financial condition.

The Company is dependent on its relationships with a small number of commercial partners, with its four largest customers having generated 96% of its revenues for the year ending December 31, 2019. A portion of the Company's revenues are dependent on U.S. based customers selling to end-users outside the U.S.

(i) Research and Development

Research and development expenses consist of costs incurred for product and formulation development activities, including regulatory support. The Company expenses research and development costs as incurred. Advanced payments for goods and services that will be used in future research and development activities are initially recorded as prepaid expenses and expensed as the activity is performed or when the goods have been received. In 2018 and 2017, these costs included salaries and related costs for personnel in research and development and regulatory functions. In the fourth quarter of 2018, the Company shifted the focus of these personnel to revenue-generating activities and, as such, these costs are included as a cost of sales beginning in the fourth quarter of 2018.

(j) Stock-Based Awards

The Company measures employee stock-based awards at grant-date fair value and recognizes employee compensation expense on a straight-line basis over the vesting period of the award. The Company accounts for forfeitures as they occur.

Determining the appropriate fair value of stock options requires the input of subjective assumptions, including the expected life of the option and expected stock price volatility. The Company uses the Black-Scholes option pricing model to value its stock option awards. The assumptions used in calculating the fair value of stock-based awards represent management's best estimates and involve inherent uncertainties and the application of management's judgment. As a result, if factors change and/or management uses different assumptions, stock-based compensation expense could be materially different for future awards.

The expected life of stock options was estimated using the "simplified method," which is based on the average of the vesting tranches and the contractual life of each grant. For stock price volatility, the Company uses the historical volatility of its publicly traded stock in order to estimate future stock price trends. The risk-free interest rate is based on U.S. Treasury notes with a term approximating the expected life of the option.

For non-employee stock-based awards, the Company recognizes compensation expense on a straight-line basis over the vesting period of each separated vesting tranche of the award, which is known as the accelerated attribution method. The estimation of the number of stock awards that will ultimately vest requires judgment, and to the extent actual results or updated estimates differ from the Company's current estimates, such amounts are recognized as an adjustment in the period in which estimates are revised.

(k) Income Taxes

Income taxes are accounted for under the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax basis, operating losses and tax credit carryforwards. Deferred tax assets and

Notes to the Consolidated Financial Statements

(amounts in thousands, except share and per share data)

liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in operations in the period that includes the enactment date. A valuation allowance is recorded to the extent it is more likely than not that some portion or all of the deferred tax assets will not be realized.

Unrecognized income tax benefits represent income tax positions taken on income tax returns that have not been recognized in the consolidated financial statements. The Company recognizes the benefit of an income tax position only if it is more likely than not (greater than 50%) that the tax position will be sustained upon tax examination, based solely on the technical merits of the tax position. Otherwise, no benefit is recognized. The tax benefits recognized are measured based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement. The Company does not anticipate significant changes in the amount of unrecognized income tax benefits over the next year.

(1) Net Income (Loss) Per Common Share

Basic net income (loss) per common share is determined by dividing net income (loss) applicable to common shareholders by the weighted average common shares outstanding during the period.

For purposes of calculating diluted net income (loss) per common share, the denominator includes both the weighted average common shares outstanding and the dilutive effect of outstanding common stock options, warrants and unvested restricted stock units, using the treasury stock method, if the inclusion of such instruments would be dilutive.

The following table sets forth the computation of basic and diluted loss per share:

	Year ended December 31,					
		2019		2018		2017
Basic Loss Per Share						
Net income (loss) from continuing operations	\$	4,625	\$	(13,068)	\$	(6,717
Net income loss from discontinued operations		(23,255)		(66,655)		(43,365
Net loss	\$	(18,630)	\$	(79,723)	\$	(50,082
Net income (loss) per share from continuing operations	\$	0.21	\$	(0.64)	\$	(0.35
Net loss per share from discontinued operations	\$	(1.04)	\$	(3.26)	\$	(2.28
Net loss per share of common stock, basic	\$	(0.83)	\$	(3.90)	\$	(2.63
Weighted average common shares outstanding, basic		22,414,194		20,465,106		19,070,983
Net income (loss) from continuing operations	\$	4.625	\$	(13,068)	\$	(6,717
Net loss from discontinued operations		(23,255)		(66,655)		(43,365
Net loss	\$	(18,630)	\$	(79,723)	\$	(50,082
Net income (loss) per share from continuing operations	\$	0.20	\$	(0.64)	\$	(0.35
Net loss per share from discontinued operations	\$	(0.99)	\$	(3.26)	\$	(2.28
Net loss per share of common stock, diluted	\$	(0.79)	\$	(3.90)	\$	(2.63
Weighted average common shares outstanding, diluted		23,608,862		20,465,106		19,070,983

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The following potentially dilutive securities have been excluded from the computations of diluted weighted average shares outstanding as ofDecember 31, 2019, 2018 and 2017 as they would be anti-dilutive:

		December 31,					
	2019	2018	2017				
Options and restricted stock units outstanding	298,565	4,878,461	3,865,468				
Warrants	_	838,664	1,133,592				

Amounts in the table above reflect the common stock equivalents of the noted instruments.

(m) Segment Information

The Company determined that it operates in a single segment.

(n) Recent Accounting Pronouncements

Recently Adopted Accounting Pronouncements

In February 2016, the FASB issued ASU No. 2016-02, "*Leases (Topic 842)*," or ASU 2016-02. ASU 2016-02 establishes a wholesale change to lease accounting and introduces a lease model that brings most leases on the balance sheet. It also eliminates the required use of bright-line tests in current U.S. GAAP for determining lease classification. In July 2018, the FASB issued ASU No. 2018-11, Leases (Topic 842), *Targeted Improvements*, which provides an alternative transition method permitting the recognition of a cumulative-effect adjustment on the date of adoption rather than restating comparative periods in transition as originally prescribed by Topic 842. The new guidance is effective for annual and interim periods beginning after December 15, 2018, with early adoption permitted. The Company adopted this guidance as of January 1, 2019. The Company elected the optional transition method to account for the impact of the adoption with a cumulative-effect adjustment in the period of adoption and did not restate prior periods. The Company opted to elect the package of practical expedients to not reassess prior conclusions related to contracts containing leases, lease classification and initial direct costs, and certain other practical expedients, including the use of hindsight to determine the lease term for existing leases and in assessing impairment of the right-of-use asset, and the exception for short-term leases. For its current classes of underlying assets, the Company recorded a right-of-use asset of \$692 and an operating lease liability of \$728. For additional information regarding how the Company is accounting for leases under the new guidance, refer to Note 12(b).

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers (Topic 606)." ASU 2014-09 represents a comprehensive new revenue recognition model that requires a company to recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which a company expects to be entitled to receive in exchange for those goods or services. This ASU sets forth a new five-step revenue recognition model that replaces the prior revenue recognition guidance in its entirety and is intended to eliminate numerous industry-specific pieces of revenue recognition guidance that have historically existed. In January 2018, the Company adopted the standard using the modified retrospective method. See Note 16 for additional information on the impact of the transition on the Company's financial statements.

Accounting Pronouncements Not Yet Adopted

In August 2018, the FASB issued ASU 2018-13, "Fair Value Measurement (Topic 820): Disclosure Framework—Changes to the Disclosure Requirements for Fair Value Measurement," or ASU 2018-13. ASU 2018-13 removes, modifies and adds certain disclosure requirements in Topic 820 "Fair Value Measurement". ASU 2018-13 eliminates certain disclosures related to transfers and the valuations process, clarifies the measurement uncertainty disclosure, and requires additional disclosures for Level 3 fair value measurements, including the range and weighted average of significant unobservable inputs used to develop Level 3 fair value measurements. ASU 2018-13 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019, with early adoption permitted. The Company is currently evaluating the potential impact on its disclosures.

In June 2016, the FASB issued ASU No. 2016-13, "Financial Instruments – Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments," or ASU 2016-13. ASU 2016-13 requires companies to measure credit losses utilizing a methodology that reflects expected credit losses and requires consideration of a range of reasonable information

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

to estimate credit losses on certain types of financial instruments, including trade receivables and available-for-sale debt securities. ASU 2016-13 is effective for fiscal years beginning after December 15, 2022, including those interim periods within those fiscal years. The Company is currently assessing the impact of adopting this standard, but based on a preliminary assessment, does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

(3) Acquisition of Gainesville Facility

On April 10, 2015, the Company completed the Gainesville Transaction. The consideration paid in connection with the Gainesville Transaction consisted of \$50,000 cash at closing, a \$4,000 working capital adjustment and a seven-year warrant to purchase 350,000 shares of the Company's common stock at an exercise price of \$19.46 per share, according to the original agreement. Under the acquisition method of accounting, the consideration paid was allocated to the fair value of the assets acquired and liabilities assumed.

In December 2018, the Company entered in to an Amendment to the Purchase and Sale Agreement that amended the warrant agreement with Alkermes, which decreased the exercise price of the warrant to \$8.26 per share. The warrant was settled in November 2019.

(4) Discontinued Operations

On November 21, 2019 (the "Distribution Date"), the Company completed the separation (the "Separation") of its former Acute Care business by distributing to the Company's shareholders on a pro rata basis all of the issued and outstanding common stock of Baudax Bio, the entity the Company incorporated to hold such businesses. To effect the Separation, the Company distributed to its shareholders 1 share of Baudax Bio common stock for every 2.5 shares of the Company's common stock outstanding as of November 15, 2019, the record date for the distribution. Fractional shares of Baudax Bio common stock that otherwise would have been distributed were aggregated and sold into the public market and the proceeds distributed to the Company's shareholders. Additionally, in connection with the Separation, the Company contributed \$19,000 of cash to Baudax Bio.

The accounting requirements for reporting the Separation of Baudax Bio as a discontinued operation were met when the Separation was completed. Accordingly, the accompanying consolidated financial statements for all periods presented reflect this business as a discontinued operation.

In connection with the Separation, the Company and Baudax Bio entered into various agreements to effect the Separation and provide a framework for their relationship after the Separation, including a transition services agreement, an employee matters agreement, a tax matters agreement and an intellectual property matters agreement. These agreements provide for the allocation between the Company and Baudax Bio of assets, employees, liabilities and obligations (including investments, property and employee benefits and tax-related assets and liabilities) attributable to periods prior to, at, and after Baudax Bio's separation from the Company and govern certain relationships between the Company and Baudax Bio after the Separation.

The historical consolidated balance sheet and statements of operations of the Company and the related notes to the consolidated financial statements have been presented as discontinued operations in the consolidated financial statements and prior periods have been recast. Discontinued operations include results of the Company's Acute Care business except for certain corporate overhead costs and certain costs associated with transition services provided by Baudax Bio to the Company, following the Separation, which are included in continuing operations.

The Separation and Distribution Agreement with Baudax Bio sets forth, among other things, the assets that were transferred, the liabilities assumed, and the contracts that were assigned to each of Baudax Bio and the Company as part of the Separation of the Company into two companies, and provided for when and how these transfers, assumptions and assignments were to occur.

The tax matters agreement governs the respective rights, responsibilities and obligations of Baudax Bio and the Company with respect to taxes (including taxes arising in the ordinary course of business and taxes, if any, incurred as a result of any failure of the Distribution and certain related transactions to qualify as tax-free for U.S. federal income tax purposes), tax attributes, uncertain tax positions, tax returns, tax proceedings and certain other tax matters.

The employee matters agreement governs certain compensation and employee benefit obligations and allocates liabilities and responsibilities relating to employment matters, employee compensation and benefit plans and programs and other related matters, including the transfer or assignment of employees from the Company to Baudax Bio.



Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

As of December 31, 2019, certain current liabilities of discontinued operations remain on the Company's consolidated balance sheet due to timing of payment, which consists of \$22 of accounts payable and \$1,150 of accrued expenses.

The following table shows amounts included in assets and liabilities of discontinued operations, respectively, on the Company's Consolidated Balance Sheets at December 31, 2018.

	Decem	ber 31, 2018
Current assets:		
Prepaid expenses and other current assets	\$	2,066
Current assets of discontinued operation		2,066
Property, plant and equipment, net		3,940
Intangible assets, net		26,400
Goodwill		2,127
Non-current assets of discontinued operation		32,467
Total assets of discontinued operation	\$	34,533
Current liabilities:		
Accounts payable	\$	2,351
Accrued expenses and other current liabilities		8,568
Current portion of contingent consideration		10,354
Current liabilities of discontinued operation		21,273
Other long-term liabilities		31
Long-term portion of contingent consideration		80,558
Non-current liabilities of discontinued operation		80,589
Total liabilities of discontinued operation	\$	101,862

The following table represents the carrying value of assets and liabilities of discontinued operations distributed as part of the Separation on November 21, 2019, excluding corporate overhead previously included in the Acute Care business:

	Nover	November 21, 2019	
Current assets:			
Cash and cash equivalents	\$	19,000	
Prepaid expenses and other current assets		605	
Current assets		19,605	
Right of use asset		832	
Property, plant and equipment, net		4,846	
Intangible assets, net		26,400	
Goodwill		2,127	
Non-current assets		34,205	
Total assets	\$	53,810	
Current liabilities:			
Accounts payable	\$	22	
Accrued expenses and other current liabilities		1,263	
Current portion of operating lease liability		356	
Current liabilities		1,641	
Non-current portion of operating lease liability		520	
Long-term portion of contingent consideration		66,129	
Non-current liabilities		66,649	
Total liabilities	\$	68,290	



Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The following is a summary of the Acute Care business expenses for the years ended December 31, 2019, 2018 and 2017.

	 Year ended December 31,									
Operating expenses:	2019		2018		2017					
Research and development	\$ 19,471	\$	35,583	\$	28,635					
Selling, general and administrative	18,441		22,441		11,104					
Change in contingent consideration valuation	 (14,783)		8,499		12,839					
Total operating expenses	23,129		66,523		52,578					
Other income (expense), net	(126)		(132)		16					
Loss on discontinued operations before income taxes	(23,255)		(66,655)		(52,562)					
Income tax benefit on discontinued operations					9,197					
Loss on discontinued operations, net of income taxes	\$ (23,255)	\$	(66,655)	\$	(43,365)					

(5) Fair Value of Financial Instruments

The Company follows the provisions of FASB ASC Topic 820, "*Fair Value Measurements and Disclosures*," for fair value measurement recognition and disclosure purposes for its financial assets and financial liabilities that are remeasured and reported at fair value each reporting period. The Company measures certain financial assets and liabilities at fair value on a recurring basis, including cash equivalents and warrants. The Company's assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the valuation of financial assets and financial liabilities and their placement within the fair value hierarchy. Categorization is based on a three-tier valuation hierarchy, which prioritizes the inputs used in measuring fair value, as follows:

· Level 1: Observable inputs such as quoted prices (unadjusted) in active markets for identical assets or liabilities

- Level 2: Inputs that are other than quoted prices in active markets for identical assets and liabilities, inputs that are quoted prices for identical or similar assets or liabilities in inactive markets, or other inputs that are either directly or indirectly observable; and
- Level 3: Unobservable inputs in which little or no market data exists, therefore requiring an entity to develop its own assumptions.

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The Company has classified assets and liabilities measured at fair value on a recurring basis as follows:

		Fair value measurements at reporting date using								
	Quoted prices in active markets for identical assets (Level 1)		markets for other identical observable assets inputs		active Significant kets for other ntical observable ssets inputs		in active Significant markets for other identical observable assets inputs			Significant nobservable inputs (Level 3)
At December 31, 2018:										
Assets:										
Cash equivalents										
Money market mutual funds (See Note 6)	\$	24,720	\$		\$	—				
Commercial paper				2,247						
U.S. Treasury obligations		2,748		—		—				
Total cash equivalents	\$	27,468	\$	2,247	\$	_				
Liabilities:										
Warrants (See Note 13(d))	\$	_	\$	_	\$	1,101				
	\$		\$		\$	1,101				
At December 31, 2019:										
Assets:										
Cash equivalents										
Money market mutual funds (See Note 6)	\$	11,609	\$	_	\$	_				
Total cash equivalents	\$	11,609	\$		\$					

The Company developed its own assumptions to determine the value of the warrants that do not have observable inputs or available market data to support the fair value. This method of valuation involves using inputs such as the fair value of the Company's common stock, stock price volatility, the contractual term of the warrants, risk free interest rates and dividend yield. Due to the nature of these inputs, the valuation of the warrants is considered a Level 3 measurement.

The reconciliation of warrants measured at fair value on a recurring basis using unobservable inputs (Level 3) is as follows:

	Warrants
Balance at December 31, 2017	\$ 3,406
Exercise of warrants	(2,589)
Remeasurement	 284
Balance at December 31, 2018	\$ 1,101
Exercise of warrants	(3,217)
Remeasurement	2,116
Total at December 31, 2019	\$ —

The Company follows the disclosure provisions of FASB ASC Topic 825, "*Financial Instruments*" (ASC 825), for disclosure purposes for financial assets and financial liabilities that are not measured at fair value. As of December 31, 2019, the financial assets and liabilities recorded on the Consolidated Balance Sheets that are not measured at fair value on a recurring basis include accounts receivable, accounts payable and accrued expenses and approximate fair value due to the short-term nature of these instruments. The fair value of long-term debt, where a quoted market price is not available, is evaluated based on, among other factors, interest rates currently available to the Company for debt with similar terms, remaining payments and considerations of the Company's creditworthiness. The Company determined that the recorded book value of long-term debt approximated fair value at December 31, 2019 due to the comparison of the terms of the debt, including borrowing rates available to the Company through its recently completed debt refinancing process, availability of additional term loan tranches, and maturity.



Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

(6) Cash Equivalents

The following is a summary of cash equivalents:

		December 31, 2019								
	Amortized			Gross Unrealized				timated		
Description		Cost		Gain Loss		oss	Fair Value			
Money market mutual funds	\$	11,609	\$	_	\$		\$	11,609		
Total cash equivalents	\$	11,609	\$	_	\$	_	\$	11,609		

	December 31, 2018								
	Amortized			Gross Unrealized				stimated	
Description	Cost		Gain		Gain Loss		Fair Value		
Money market mutual funds	\$	24,720	\$	—	\$	_	\$	24,720	
Commercial paper		2,247		_		_		2,247	
U.S. Treasury obligations		2,747		1		_		2,748	
Total cash equivalents	\$	29,714	\$	1	\$	_	\$	29,715	

As of December 31, 2019 and 2018, the Company's cash equivalents had maturities ranging from one to two months. The fair value of the Company's U.S. Treasury obligations is determined by taking into consideration valuations obtained from third-party pricing services. The third-party pricing services utilize industry standard valuation models, for which all significant inputs are observable, either directly or indirectly, to estimate fair value. These inputs include reported trades of and broker/dealer quotes on the same or similar securities, issuer credit spreads, benchmark securities, and other observable inputs. To derive the fair value of its commercial paper, the Company uses benchmark inputs and industry standard analytical models.

(7) Inventory

Inventory is stated at the lower of cost and net realizable value. Included in inventory are raw materials and work-in-process used in the production of commercial products. Cost is determined using the first-in, first-out method.

Inventory was as follows as of December 31, 2019 and 2018:

	December 31, 2019	December 31, 2018
Raw materials	\$ 3,240	\$ 2,611
Work in process	6,430	4,935
Finished goods	5,892	3,440
	15,562	10,986
Provision for inventory obsolescence	(490)) (287)
	<u>\$ 15,072</u>	\$ 10,699

Adjustments to inventory are determined at the raw materials, work-in-process, and finished good levels to reflect obsolescence or impaired balances. Inventory is primarily ordered to meet specific customer orders and largely reflects demand. Factors influencing inventory obsolescence include changes in demand, product life cycle, product pricing, physical deterioration and quality concerns.



Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

(8) Property, Plant and Equipment

Property, plant and equipment consists of the following:

	Decem	ber 31, 2019	Decen	nber 31, 2018
Land	\$	3,263	\$	3,263
Building and improvements		20,900		17,683
Furniture, office and computer equipment		5,847		5,604
Manufacturing equipment		35,699		30,097
Construction in progress		729		3,610
Property, plant and equipment		66,438		60,257
Less: accumulated depreciation and amortization	_	24,226	_	18,557
Property, plant and equipment, net	\$	42,212	\$	41,700

Depreciation expense for the years ended December 31, 2019, 2018 and 2017 was \$5,817, \$4,872 and \$4,793, respectively.

(9) Intangible Assets

The following represents the balance of the intangible assets at December 31, 2019:

			Ac	cumulated		
	Cost		Amortization		Net Intangible Assets	
Royalties and contract manufacturing relationships	\$	15,500	\$	12,217	\$	3,283
Total	\$	15,500	\$	12,217	\$	3,283

The following represents the balance of intangible assets at December 31, 2018:

	Cost Amortization			Net Intangible Assets		
Royalties and contract manufacturing relationships	\$ 15,500	\$	9,634	\$	5,866	
Total	\$ 15,500	\$	9,634	\$	5,866	

Amortization expense each year for the years ended December 31, 2019, 2018 and 2017 was \$2,583. The amortization expense for the next two years will be \$3,283 consisting of \$2,583 in 2020 and \$700 in the final year.

Accumulated

(10) Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consist of the following:

	December 31,	December 31,
	2019	
Payroll and related costs	2,593	3,219
Professional and consulting fees	370	555
Accrued restructuring	365	—
Deferred revenue	337	66
Property plant and equipment	88	1,459
Other	423	298
	\$ 4176	\$ 5,597

(11) Long-Term Debt

On November 17, 2017, the Company entered into a \$100,000 Credit Agreement, or the Credit Agreement, with Athyrium Opportunities III Acquisition LP, or Athyrium. The Credit Agreement provided for a term loan in the original principal amount of \$60,000 funded at closing. In December 2018, the Company amended the Credit Agreement, (as amended, the "Amended"



Notes to the Consolidated Financial Statements

(amounts in thousands, except share and per share data)

Credit Agreement"). Pursuant to the Amended Credit Agreement, the \$20,000 term B loan and \$20,000 term C loan provided for under the Credit Agreement, were restructured into (i) a \$10,000 term B-1 loan, funded on December 28, 2018; (ii) a \$15,000 term B-2 loan; and (iii) a \$15,000 term C loan.

On February 28, 2019, the Company entered into a Second Amendment to Credit Agreement (the "Second Amendment") with Athyrium. Pursuant to the Second Amendment, (i) the total commitments of the term loan credit facility governed by the Amended Credit Agreement was increased from \$100,000 to \$125,000, (ii) the \$15,000 term B-2 loan and \$15,000 term C loan provided for under the Amended Credit Agreement were restructured into a \$55,000 term B-2 loan, which was funded on the date of execution of the Second Amendment and (iii) the maturity date was extended to March 31, 2023 (the "Maturity Date"). Beginning on March 31, 2021, the Company must repay the outstanding principal amount in quarterly installments of \$3,000 with the outstanding principal balance due on the Maturity Date.

On October 22, 2019, the Company entered into a Third Amendment to Credit Agreement (the "Third Amendment") with Athyrium. The Third Amendment authorizes the release of two of the Company's subsidiaries, Baudax Bio and Baudax Bio N.A. LLC (formerly known as Recro N.A. LLC) ("Baudax Bio N.A."), from their respective obligations as guarantors and the release of any liens granted to or held by Athyrium on collateral provided by or equity interests in Baudax Bio and Baudax Bio N.A., including the security interest in Baudax Bio Limited (formerly Recro Ireland Limited) (the "Release") under the Credit Agreement, as amended.

The Release is subject to certain conditions, including consummation of the Distribution. The Release is applicable only to Baudax Bio and Baudax Bio N.A. and will not affect or modify any obligations of the Company or the Guarantors (other than Baudax Bio and Baudax Bio N.A.) under the Existing Credit Agreement.

The term loans bear interest at a rate equal to the three-month LIBOR rate, with a 1% floor plus 9.75% per annumIn addition, in accordance with the Credit Agreement the Company will have to pay a 1% exit fee, which is \$1,250 at the current outstanding loan balance and is being accreted to the carrying amount of the debt using the effective interest method over the term of the loan. In addition, if there is an early repayment, there is a sliding scale of prepayment penalties beginning with a 10% penalty and including a make-whole interest payment. No prepayment penalties are assessed for payments made after March 31, 2022.

The Amended Credit Agreement contains certain usual and customary affirmative and negative covenants, as well as financial covenants that the Company will need to satisfy on a monthly and quarterly basis. As of December 31, 2019, the Company was in compliance with the covenants.

As of December 31, 2019, the remaining payments due under the Amended Credit Agreement include a principal payment of \$125,000 and an exit fee of \$1,250 due at the Maturity Date.

In connection with the Credit Agreement, the Company issued warrants to each of Athyrium and its affiliate, Athyrium Opportunities II Acquisition LP, or Athyrium II, to purchase an aggregate of 348,664 shares of the Company's common stock with an exercise price of \$8.6043 per share. In connection with the Amended Credit Agreement, the warrants were amended to decrease the exercise price to \$6.84 per share. See Note 13(d) for additional information. The warrants are exercisable through November 17, 2024. The initial fair value of the warrant and revaluation adjustment from the repricing of the warrants of \$2,232 was recorded as a debt issuance cost.

In addition, the Company recorded debt issuance costs for the Amended Credit Agreement of \$4,439 at original signing, an amendment fee of \$500 as well as certain other fees and expenses in December 2018, and recorded debt issuance costs for the Second Amendment consisting of a \$2,500 amendment fee, \$436 closing fee and \$11,400 original issue discount which, along with the fair value of warrants, are being amortized using the effective interest method over the term of the Second Amendment. Debt issuance cost amortization is included in interest expense within the Consolidated Statements of Operations and Comprehensive Loss. As of December 31, 2019, the effective interest rate was 16.11%, which takes into consideration the non-cash accretion of the exit fee, the amortization of the debt issuance cost and the original issue discount.

The components of the carrying value of the debt as of December 31, 2019, are detailed below:

Principal balance outstanding	\$ 125,000
Unamortized deferred issuance costs	(15,100)
Exit fee accretion	419
Total	\$ 110,319

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The Company used proceeds from the Credit Agreement to (i) repay in full all outstanding indebtedness under itsprevious credit facility, dated April 10, 2015, between the Company's subsidiary, Recro Gainesville LLC and OrbiMed Royalty Opportunities II, LP, or the OrbiMed Credit Agreement of \$31,767, which included the remaining debt principal balance of \$27,347 and early termination charges of \$4,420 and (ii) pay transaction fees associated with the Credit Agreement of \$4,178

Associated with the refinancing of the OrbiMed Credit Agreement and in accordance with ASC 405-20 "Extinguishments of Liabilities", in the twelve months ended December 31, 2017, the Company recorded a loss on extinguishment of \$6,772, which is reflected in the interest expense line within the Consolidated Statement of Operations and Comprehensive Loss.

The Company recorded debt issuance cost amortization related to the credit agreements of \$5,129 \$1,313 and \$771, for the years ended of December 31, 2019, 2018 and 2017, respectively.

(12) Commitments and Contingencies

(a) Litigation

The Company is involved, from time to time, in various claims and legal proceedings arising in the ordinary course of its business. Except as disclosed below, the Company is not currently a party to any such claims or proceedings that, if decided adversely to it, would either individually or in the aggregate have a material adverse effect on its business, financial condition or results of operations.

On May 31, 2018, a securities class action lawsuit, or the Securities Litigation, was filed against the Company and certain of its officers and directors in the U.S. District Court for the Eastern District of Pennsylvania (Case No. 2:18-cv-02279-MMB) that purported to state a claim for alleged violations of Section 10(b) and 20(a) of the Exchange Act and Rule 10(b)(5) promulgated thereunder, based on statements made by the Company concerning the NDA for IV meloxicam. The complaint seeks unspecified damages, interest, attorneys' fees and other costs. On December 10, 2018, lead plaintiff filed an amended complaint that asserted the same claims and sought the same relief but included new allegations and named additional officers as defendants. On February 8, 2019, the Company filed a motion to dismiss the amended complaint in its entirety, which the lead plaintiff opposed on April 9, 2019. On May 9, 2019, the Company filed its response and briefing was completed on the motion to dismiss. In response to questions from the Judge, the parties submitted supplemental briefs with regard to the motion to dismiss the amended complaint during the fall of 2019. On February 18, 2020, the motion to dismiss was granted without prejudice; however, the plaintiffs have indicated that they intend to file a new complaint. In connection with the separation of Baudax Bio, Baudax Bio accepted assignment by the Company of all of its obligations in connection with the Securities Litigation and agreed to indemnify the Company for all liabilities related to the Securities Litigation. The Company believes that the lawsuit is without merit and intend to vigorously defend against it if the plaintiffs file a new complaint. The lawsuit is in the early stages and, at this time, no assessment can be made as to its likely outcome or whether the outcome will be material to the Company.

(b) Leases

The Company is a party to various operating leases in Georgia for office, manufacturing, chemistry, and manufacturing and controls development space. The Company is also a party to leases for office equipment and storage.

The Company determines if an arrangement is a lease at inception. The arrangement is a lease if it conveys the right to the Company to control the use of identified property, plant, or equipment for a period of time in exchange for consideration. Lease terms vary based on the nature of operations, however, all leased facilities are classified as operating leases with remaining lease terms between less than one year and 6 years. Most leases contain specific renewal options where notice to renew must be provided in advance of lease expiration or automatic renewals where no advance notice is required. Periods covered by an option to extend the lease were included in the non-cancellable lease term when exercise of the option was determined to be reasonably certain. Costs determined to be variable and not based on an index or rate were not included in the measurement of operating lease liabilities. As most leases do not provide an implicit rate, the Company's incremental borrowing rate was used to discount its lease liabilities.

The Company's leases with an initial term of 12 months or less that do not have a purchase option or extension that is reasonably certain to be exercised are not included in the right of use asset or lease liability on the Consolidated Balance Sheets. Lease expense is recognized on a straight-line basis over the lease term.

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

As of December 31, 2019, undiscounted future lease payments for non-cancellable operating leases, are as follows:

	Lease pag	yments
2020	\$	203
2021		165
2022		156
2023		156
2024		155
2025 and thereafter		91
Total lease payments		926
Less imputed interest		(411)
Total operating liabilities	\$	515

As of December 31, 2018 under legacy ASC 840 "Leases", undiscounted future lease payments for non-cancellable operating leases were as follows:

	Lease	e payments	
2019	\$	264	
2020		199	
2021		156	
2022		156	
2023		156	
2024 and thereafter		247	
Total	\$	1,178	

For the year ended December 31, 2019, the weighted average remaining lease term was 5 years and the weighted average discount rate was 16%.

The components of the Company's lease cost were as follows for the year ended December 31, 2019:

	Year Ended December 31, 2019
Operating lease cost	\$ 227
Short-term lease cost	57
Variable lease cost	22
Total lease cost	\$ 306

(c) Purchase Commitments

As of December 31, 2019, the Company had outstanding non-cancelable and cancelable purchase commitments of \$5,593 related to inventory, capital expenditures, transition services agreement costs and other goods and services.

(d) Certain Compensation and Employment Agreements

The Company has entered into employment agreements with certain of its named executive officers. As of December 31, 2019, these employment agreements provided for, among other things, annual base salaries in an aggregate amount of not less than \$1,018 from that date through calendar year 2020.

(13) Capital Structure

(a) Common Stock

The Company is authorized to issue 50,000,000 shares of common stock, with a par value of \$0.01 per share.

Reflected below are the Company's capital raises since its initial public offering, or IPO:

Notes to the Consolidated Financial Statements

(amounts in thousands, except share and per share data)

On March 12, 2014, the Company completed an IPO, in which the Company sold 4,312,500 shares of common stock at \$8.00per share, resulting in gross proceeds of \$34,500. In connection with the IPO, the Company paid \$4,244 in underwriting discounts, commissions and offering costs, resulting in net proceeds of \$30,256. Also in connection with the IPO, all of the outstanding shares of the Company's Series A Redeemable Convertible Preferred Stock, including accreted dividends, and Bridge Notes, including accreted into common stock.

On July 7, 2015, the Company closed a private placement with certain accredited investors in which the Company sold 1,379,311 shares of common stock at a price of \$11.60 per share, for net proceeds of \$14,812. The Company paid the placement agents a fee equal to 6.0% of the aggregate gross proceeds from the private placement, plus reimbursement of certain expenses.

On August 19, 2016, the Company closed an underwritten public offering in which the Company sold 1,986,666 shares of common stock at a price per share of \$7.50, for net proceeds of \$13,367 after deducting underwriting commissions and offering expenses.

On December 16, 2016, the Company closed an underwritten public offering in which the Company sold 6,670,000 shares of common stock at a price per share of \$6.00, for net proceeds of \$36,888 after deducting underwriting commissions and offering expenses.

On December 29, 2017, the Company entered into a sales agreement, or the Sales Agreement, with Cowen and Company, LLC, or Cowen, pursuant to which the Company may sell from time to time, at its option, shares of its common stock, \$0.01 par value per share, having an aggregate offering price of up to \$40,000 through Cowen, as the placement agent. As of December 31, 2019, the Company did not have any sales of common stock under the Sales Agreement.

(b) Common Stock Purchase Agreement

On March 2, 2018, the Company entered into a common stock purchase agreement, or the 2018 Purchase Agreement, with Aspire Capital Fund, LLC, or Aspire Capital, which provides that, upon the terms and subject to the conditions and limitations set forth in the 2018 Purchase Agreement, Aspire Capital is committed to purchase, at the Company's sole election, up to an aggregate of \$20,000 of its shares of common stock over the approximately 30-month term of the 2018 Purchase Agreement. On the execution of the 2018 Purchase Agreement, the Company agreed to issue 33,040 shares of common stock to Aspire Capital with a fair value of \$357 as consideration for entering into the 2018 Purchase Agreement. As of December 31, 2019, the Company sold 1,950,000 shares of common stock under the 2018 Purchase Agreement for proceeds of \$16,999, at an average per share price of \$8.72.

On February 19, 2019, the Company entered into a common stock purchase agreement, or the 2019 Purchase Agreement, with Aspire Capital Fund, LLC, or Aspire Capital, which provides that, upon the terms and subject to the conditions and limitations set forth in the 2019 Purchase Agreement, Aspire Capital is committed to purchase, at the Company's sole election, up to an aggregate of \$20,000 of its shares of common stock over the approximately 30-month term of the Purchase Agreement. On the execution of the 2019 Purchase Agreement, the Company agreed to issue 34,762 shares of common stock to Aspire Capital as consideration for entering into the 2019 Purchase Agreement.

(c) Preferred Stock

The Company is authorized to issue 10,000,000 shares of preferred stock, with a par value of \$0.01 per share. As of December 31, 2019, no preferred stock was issued or outstanding.

(d) Warrants

As of December 31, 2019, the Company had the following warrant outstanding to purchase shares of the Company's common stock:

Number of Shares	Exercise Price per Share	Expiration Date
348,664	\$ 6.84	November 2024

The warrant to purchase 348,664 shares relates to Athyrium and is equity classified. During the year ended December 31, 2017, the Company recorded Athyrium equity classified warrants of \$1,966, which is the fair value of \$2,143, net of the related tax effect of \$177.



Notes to the Consolidated Financial Statements

(amounts in thousands, except share and per share data)

In November 2019, the warrant to purchase 350,000 shares issued to Alkermes, which was liability classified as it contained a contingent net cash settlement feature, was exercised on a cashless basis, with Alkermes surrendering 165,673 shares to cover the aggregate exercise price, resulting in the issuance of 184,327 shares of common stock based on the closing bid price of the Company's common stock on November 8, 2019 of \$17.45.

For the year ended December 31, 2019, no liability classified warrants remain outstanding. The following table summarizes the fair value and the assumptions used for the Black-Scholes option-pricing model for the liability classified warrants for the year ended December 31, 2018:

De	December 31, 2018		
\$	1,101		
	— %		
	69 %		
	2.49 %		
	3.25 years		

Each of the warrant agreements include usual and customary standard antidilution provisions and the Athyrium agreement contains additional antidilution provisions as well.

(14) Comprehensive Loss

The Company's comprehensive loss is shown on the Consolidated Statements of Operations and Comprehensive Loss for the years ended December 31, 2019, 2018 and 2017 and is comprised of net unrealized gains and losses on the Company's available-for-sale securities. The total comprehensive loss for the twelve months ended December 31, 2019, 2018 and 2017 was \$18,630, \$79,722 and \$50,083, respectively. There was no tax effect for the twelve months ended December 31, 2019, 2018 or 2017 of other comprehensive loss.

(15) Stock-Based Compensation

The Company established the 2008 Stock Option Plan, or the 2008 Plan, which allows for the granting of common stock awards, stock appreciation rights, and incentive and nonqualified stock options to purchase shares of the Company's common stock to designated employees, non-employee directors, and consultants and advisors. As of December 31, 2019, no stock appreciation rights have been issued. Subsequent to adoption, the 2008 Plan was amended to increase the authorized number of shares available for grant to 444,000 shares of common stock. This plan expired in 2018. In October 2013, the Company established the 2013 Equity Incentive Plan, or the 2013 Plan, which allows for the grant of stock options, stock appreciation rights and stock awards for a total of 600,000 shares of common stock. In June 2015, the Company's shareholders approved the Amended and Restated Equity Incentive Plan, or the A&R Plan, which amended and Restated Equity Incentive Plan, which and and restated the A&R Plan to increase the aggregate amount of shares available for issuance to 2,000,000. In May 2018, the Company's shareholders approved the AMEN Plan to increase the aggregate amount of shares available for issuance to 2,000,000. In May 2018, the Company's shareholders approved the 2018 Amended and Restated Equity Incentive Plan, which "Evergreen" provision of the A&R Plan to increase the aggregate amount of shares available for issuance to shares available under the plan may be increased by the board of directors by an amount equal to 5% of the outstanding common stock on December 1st of that year. In December 2019, 2018 and 2017, the number of shares available for issuance under the A&R Plan was increased by 1,161,693, 1,082,972 and 956,341, respectively. The total number of shares authorized for issuance under the A&R Plan as of December 31, 2019 is 9,281,402.

Stock options are exercisable generally for a period of 10 years from the date of grant and generally vest over four years. As of December 31, 2019, 3,498,500 shares are available for future grants under the A&R Plan.

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The weighted average grant-date fair value of the options awarded to employees during the years ended December 31, 2019, 2018 and 2017 was \$5.72, \$5.95 and \$5.44, respectively. The fair value of the options was estimated on the date of grant using a Black-Scholes option pricing model with the following assumptions: December 31.

	December 31,			
	2019	2018	2017	
Range of expected option life	5.5 - 6 years	5.5 - 6 years	6 years	
Expected volatility	78.26% -	73.26% -		
	81.54%	82.00%	75.10 - 84.71%	
Risk-free interest rate	1.56 - 2.66%	2.32 - 3.03%	1.87 - 2.27%	
Expected dividend yield	_	—		

The following table summarizes stock option activity during the years ended December 31, 2019 and 2018:

	Number of shares	Weighted average exercise price	Weighted average remaining contractual life
Balance, December 31, 2017	3,594,875	\$ 7.17	7.1 years
Granted	949,861	\$ 8.92	
Exercised	(355,312)	\$ 5.17	
Expired/forfeited/cancelled	(414,359)	\$ 8.81	
Balance, December 31, 2018	3,775,065	\$ 7.62	7.4 years
Granted	1,526,679	\$ 8.24	
Exercised	(871,790)	\$ 7.01	
Expired/forfeited/cancelled	(734,305)	\$ 7.88	
Balance, December 31, 2019	3,695,649	\$ 7.97	7.2 years
Vested	2,207,150	\$ 7.74	6.2 years
Vested and expected to vest	3,695,649	\$ 7.97	7.2 years

Included in the table above are 439,490 options outstanding as of December 31, 2019 that were granted outside the plan. The grants were made pursuant to the NASDAQ inducement grant exception in accordance with NASDAQ Listing Rule 5635(c)(4).

The following table summarizes restricted stock units activity during the years ended December 31, 2019 and 2018.

	Number of shares
Balance, December 31, 2017	270,593
Granted	1,011,487
Vested and settled	(133,268)
Expired/forfeited/cancelled	(45,416)
Balance, December 31, 2018	1,103,396
Granted	1,161,836
Vested and settled	(586,685)
Expired/forfeited/cancelled	(481,045)
Balance, December 31, 2019	1,197,502
Expected to vest	931,302

Included in the table above are 18,625 time-based RSUs outstanding as of December 31, 2019 that were granted outside the plan. The grants were made pursuant to the NASDAQ inducement grant exception in accordance with NASDAQ Listing Rule 5635(c)(4).

Stock-based compensation expense from continuing operations for the twelve months ended December 31, 2019, 2018 and 2017 was \$6,191, \$4,279 and \$4,178, respectively.

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

As of December 31, 2019, there was \$17,018 of unrecognized compensation expense related to unvested options and time-based RSUs that are expected to vest and will be expensed over a weighted average period of 1.7 years, of which approximately \$3,800 relates to Baudax Bio employees and will be recorded in Baudax Bio in future periods. As of December 31, 2019, there was \$2,127 of unrecognized compensation expense related to unvested performance-based RSUs that will be expensed if the performance criteria are met.

In January 2020, the Company cancelled 251,200 performance-based RSUs as the performance criteria was based on Acute Care business related goals.

The aggregate intrinsic value represents the total amount by which the fair value of the common stock subject to options exceeds the exercise price of the related options. As of December 31, 2019, the aggregate intrinsic value of the vested and unvested options was \$23,368 and \$14,932, respectively.

(16) Revenue Recognition

Effective January 1, 2018, the Company adopted ASU 2014-09 using the modified retrospective method applied to contracts existing as of January 1, 2018. See Note 2 for additional information on the Company's revenue recognition policies.

The Company uses the practical expedient to not account for significant financing components because the period between recognition and collection does not exceed one year in any contract.

Contract assets represent revenue recognized for performance obligations completed before an unconditional right to payment exists, and therefore invoicing or associated reporting from the customer regarding the computation of the net product sales has not yet occurred. Contract assets were \$8,851 and \$5,201 at December 31, 2019 and December 31, 2018, respectively. Generally, the contract assets balance is impacted by the recognition of additional contract assets, offset by amounts invoiced to customers or actual net product sale amounts reported by the commercial partner for the period. For the years ended December 31, 2019, actual net product sale amounts reported by the Company's commercial partners exceeded estimates of royalty amounts attributed to manufactured product shipped as of December 31, 2018 for the related arrangements by approximately \$2,083.

The following table presents changes in the Company's contract assets for the twelve months ended December 31, 2019:

Contract asset, beginning of year	\$ 5,201
Change in estimate arising from changes in transaction price	2,083
Reclassification of contract asset to receivables, as the result of	
rights to consideration becoming unconditional	(7,284)
Contract assets recognized	8,851
Contract asset, end of period	\$ 8,851

The following table disaggregates revenue by timing of revenue recognition:

		Twelve Months Ended December 31, 2019				
Point in time		in time	Over time		Total	
nue	\$	96,346	\$	2,873	\$	99,219
		Twelve Mont	hs Endec	l December	· 31, 2018	}
	Point	in time	Over	time		Total
	\$	76,270	\$	1,077	\$	77,347

Adoption of ASU 2014-09 did not require capitalization of any costs to obtain or fulfill contracts. In general, the Company's payment terms for manufacturing revenue and research and development services is 30 days. Royalty revenue is recorded to

RECRO PHARMA, INC. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

accounts receivable in the quarter that the product is sold by the commercial partner upon reporting from the commercial partner and payment terms are generally 45 days after quarter end. Based on the adoption of ASU 2014-09, the timing difference between recognition of certain royalty revenues as a contract asset and cash receipt is increased by an estimated 90 days.

(17) Income Taxes

The components of income from continuing operations before income tax are as follows:

		De	cember 31,	
	2019		2018	2017
Domestic	\$ 4,625	\$	4,368	\$ 600

The components of the income tax provision (benefit) from continuing operations are as follows:

December 31,					
	2019		2018		2017
\$	—	\$	(130)	\$	(190)
	_		1		
\$	_		(129)		(190)
\$	1,368	\$	124	\$	7,769
	(356)		(1,327)		(262)
	1,012		(1,203)		7,507
	(1,012)		18,768		_
\$	_	\$	17,436	\$	7,317
	\$	\$ \$ \$ 1,368 (356) 1,012	2019 \$ — \$ — \$ — \$ — \$ 1,368 (356) 1,012	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

A reconciliation of the statutory U.S. federal income tax rate to the Company's effective tax rate from continuing operations is as follows:

	Year	Year ended December 31,			
	2019	2018	2017		
U.S. federal statutory income tax rate	21.0 %	21.0 %	34.0%		
State taxes, net of federal benefit	(7.7)%	(30.4)%	(43.7)%		
Nondeductible expenses	11.4 %	0.3 %	(21.0)%		
Research and development credits	(2.8)%	(21.0)%	(81.5)%		
Change in federal tax rate	—	(1.4)%	1315.6%		
Change in valuation allowance	(21.9)%	429.7%	_		
Other		1.0%	16.8%		
Effective income tax rate		399.2 %	1220.2 %		

RECRO PHARMA, INC. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements (amounts in thousands, except share and per share data)

The tax effects of temporary differences that gave rise to significant portions of the deferred tax assets were as follows:

	Decen	December 31,			
	2019	2018			
Net operating loss carryforwards	\$ 35,052	\$ 17,923			
Research and development credits	4,443	4,307			
Capitalized start-up costs	1,588	1,489			
Intangibles	66	3,194			
Contingent consideration	—	9,816			
Stock-based compensation	4,441	4,797			
Operating lease liability	147	—			
Interest expense	6,966	1,370			
Other temporary differences	(1,918)	288			
Gross deferred tax asset	50,785	43,184			
Valuation allowance	(45,214)	(40,417)			
Net deferred tax asset	5,571	2,767			
Deferred tax liability	(5,571)	(2,767)			
Net deferred taxes	\$	\$			

During the year ended December 31, 2019, the Company made an election to treat its Irish subsidiary as a disregarded entity for U.S federal income tax purposes, which resulted in a worthless stock and bad debt deduction of approximately \$97.0 million for U.S. federal income tax purposes. There was no impact on the consolidated financial statements for this benefit as a result of the full valuation allowance against deferred tax assets.

As a result of the Separation (see Note 4), certain deferred tax assets and liabilities that existed as of December 31, 2018 were attributable to Baudax subsequent to the transaction. As of December 31, 2019, deferred tax assets represent the deferred taxes attributable to the Company following the Separation. There was no impact on the consolidated financial statements for these adjustments to deferred tax assets as a result of the Separation due to the full valuation allowance against deferred tax assets.

In assessing the realizability of the net deferred tax asset, the Company considers all relevant positive and negative evidence in determining whether it is more likely than not that some portion or all of the deferred income tax assets will not be realized. The realization of the gross deferred tax assets is dependent on several factors, including the generation of sufficient taxable income prior to the expiration of the net operating loss carryforwards.

In 2018, the Company recorded a valuation allowance against its U.S. and state deferred tax assets based on the available positive and negative evidence available. An important aspect of objective negative evidence evaluated was the Company's historical operating results over the prior three-year period. The Company maintains the valuation allowance as of December 31, 2019 as a result of historical losses, inclusive of discontinued operations, during the most recent three year period. The Company will re-evaluate the need for a valuation allowance in future periods based on its operating results as a standalone entity.

The following table summarizes carryforwards of Federal net operating losses and tax credits as of December 31, 2019:

	 Amount	Expiration		
Federal net operating losses - 2008 to 2017	\$ 8,200	2028 - 2038		
Federal net operating losses - 2018 to 2019	\$ 113,417	No expiration		
State net operating losses	\$ 128,095	2028 - 2039		
Federal and state research and development credits	\$ 4,443	2028 - 2038		

Under the Tax Reform Act of 1986, as amended (the "Act"), the utilization of a corporation's net operating loss and research and development tax credit carryforwards is limited following a greater than 50% change in ownership during a three-year period. Any unused annual limitation may be carried forward to future years for the balance of the carryforward period. The Company has done an analysis to determine whether or not ownership changes, as defined by the Act, have occurred since inception. The Company determined that it experienced ownership changes, as defined by the Act, during the 2008, 2014 and 2016 tax years as a result of past financings; accordingly, the Company's ability to utilize the aforementioned carryforwards will be limited. In addition, state net operating loss carryforwards may be further limited, including in Pennsylvania, which has a

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RECRO PHARMA, INC. AND SUBSIDIARIES

Notes to the Consolidated Financial Statements

(amounts in thousands, except share and per share data)

limitation of 30%, 35% or 40% of taxable income after modifications and apportionment on state net operating losses utilized in any one year during tax years beginning during 2017, 2018 or 2019 going forward, respectively.

The Company will recognize interest and penalties related to uncertain tax positions in income tax expense. As of December 31, 2019, the Company had no accrued interest or penalties related to uncertain tax positions and no amounts have been recognized in the Company's statements of operations. Due to net operating loss and tax credit carry forwards that remain unutilized, income tax returns for tax years from inception through 2016 remain subject to examination by the taxing jurisdictions.

On December 22, 2017, the Tax Cuts and Jobs Act (H.R. 1) (the "Tax Act") was signed into law. The Tax Act contains significant changes to corporate taxation, including (i) the reduction of the corporate income tax rate to 21%, (ii) the acceleration of expensing for certain business assets, (iii) the one-time transition tax related to the transition of U.S. international tax from a worldwide tax system to a territorial tax system, (iv) additional limitations on the deductibility of interest expense, and (v) expanded limitations on executive compensation. The most significant impacts on the Company are as follows:

- The Company remeasured its existing U.S. federal deferred tax assets and liabilities at the rate that the Company expects to be in effect when those deferred taxes will be realized, which is now 21%. In 2017, the Company recognized a one-time net expense from the deferred tax remeasurement of approximately \$7,900.
- The Company will be able to claim an immediate deduction for investments in qualified fixed assets acquired and placed in service beginning September 27, 2017 through 2022. This provision phases out through 2026.
- Given our taxable losses in the U.S., we will be limited in our ability to deduct interest expense, and any disallowed interest expense for 2018 and tax
 years following will result in an indefinite carry forward until such time as we meet the taxable income thresholds required to deduct interest expense.

Pursuant to the Securities and Exchange Commission Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Act ("SAB 118"), the SEC gave issuers a one year measurement period to finalize accounting adjustments related to the act. For the year-ended December 31, 2017, the Company disclosed it was unable to determine a reasonable estimate of the decrease to its stock compensation deferred tax asset, if any, under the Tax Act due to expanded limitations on the deductibility of executive compensation. The Company has subsequently determined there were no material changes required related to any provisional amounts recorded and the measurement period under SAB 118 has closed.

(18) Related Party Transactions

Baudax Bio became a related party to the Company following the Separation. As part of the Separation, the Company entered into a transition services agreement with Baudax Bio. Under the transition services agreement, Baudax Bio provides certain services to the Company, each related to corporate functions, and are charged to the Company. Additionally, the Company may incur expenses that are directly related to Baudax Bio after the Separation, which are billed to Baudax Bio. For the year ended December 31, 2019, for periods subsequent to the Separation, the Company recorded expense of \$206 related to the transition services agreement, which is recorded as an increase in selling, general and administrative expenses. The Company recorded a net payable of \$273 for such activities and other activity with Baudax Bio as of December 31, 2019.

(19) Retirement Plan

The Company has a voluntary 401(k) Savings Plan (the 401(k) Plan) in which all employees are eligible to participate. The Company's policy is to match 100% of the employee contributions up to a maximum of 5% of employee compensation. Total Company contributions to the 401(k) Plan for the year ended December 31, 2019, 2018 and 2017 were \$926, \$860 and \$849, respectively.

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

Exhibit 4.7

Recro Pharma, Inc. (the "Company") has one class of securities registered under Section 12 of the Securities Exchange Act of 1934as amended (the "Exchange Act"). The Company's common stock, \$0.01 par value per share ("Common Stock") is registered under Section 12(b) of the Exchange Act. The following description of our Common Stock is a summary and does not purport to be complete. It is subject to and qualified in its entirety by reference to our amended and restated articles of incorporation ("Articles of Incorporation") and amended and restated bylaws ("Bylaws"), each of which is incorporated by reference as an exhibit to the Annual Report on Form 10-K of which this Exhibit 4.7 is a part. We encourage you to read our Articles of Incorporation, Bylaws and the applicable provisions of Pennsylvania Business Corporation Law ("PBCL"), for additional information.

References to "Recro," "we," "our" and the "Company" herein are, unless the context otherwise indicates, only to Recro Pharma, Inc. and not to any of its subsidiaries.

Common Stock

Authorized Capital Stock. Our authorized capital stock consists of 60,000,000 shares, 50,000,000 of which are designated as Common Stock and 10,000,000 of which are designated as preferred stock with a par value of \$0.01 (the "Preferred Stock"). Shares of our Common Stock have the following rights, preferences and privileges:

Voting Rights. Except as otherwise provided by the PBCL or our Articles of Incorporation and subject to the rights of holders of any series of Preferred Stock, all of the voting power of our shareholders is vested in the holders of the Common Stock, and each holder of Common Stock has one vote for each share held by such holder on all matters voted upon by our shareholders. No holder of Common Stock is entitled to the right of cumulative voting. At meetings of our shareholders, a plurality of the votes cast is sufficient to elect a director to our board of directors (the "Board").

Dividends. Except as otherwise provided by the PBCL or our Articles of Incorporation, and subject to the powers, rights, privileges, preferences and priorities of holders of any series of Preferred Stock, the holders of Common Stock will share ratably in all dividends payable in cash, stock or otherwise and other distributions, whether in respect of liquidation or dissolution (voluntary or involuntary) or otherwise, at such times and in such amounts as our Board in its sole discretion may determine.

No Preemptive or Similar Rights. Holders of our Common Stock have no preemptive, subscription, redemption or conversion rights.

Registration Rights. In March 2018 and February 2019 we entered into registration rights agreements with Aspire Capital Fund, LLC, or Aspire, in connection with Common Stock purchase agreements we entered into with Aspire in March 2018 and February 2019, respectively. These registration rights agreements required us to register the sales of shares of our Common Stock to Aspire pursuant to the Common Stock purchase agreements and to maintain continuous effectiveness of the registration statements until the earlier of (i) a date on which we are no longer eligible to use Form S-3, (ii) the date on which we have sold all shares under the applicable Common Stock purchase agreement. The sales of shares of our Common Stock to Aspire under the Common Stock purchase agreements were registered pursuant to prospectus supplements dated March 2, 2018 and February 19, 2019, respectively, to our registration statement on Form S-3 declared effective June 12, 2017 and the base prospectus therein.

Transfer Agent and Registrar. The transfer agent and registrar for our Common Stock is Broadridge Corporate Issuer Solutions, Inc.

Listing. Our Common Stock is listed on the Nasdaq Capital Market under the symbol "REPH."

Preferred Stock

Our Board has the authority, without further action by our shareholders, to issue up to 10,000,000 shares of Preferred Stock in one or more series, to establish from time to time the number of shares to be included in each such series, to fix the dividend, voting and other rights, preferences and privileges of the shares of each wholly unissued series and any qualifications, limitations or restrictions thereon, and to increase or decrease the number of shares of any such series, but not below the number of shares of such series then outstanding. Our Board may authorize the issuance of Preferred Stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our Common Stock. The issuance of Preferred Stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, have the effect of delaying, deferring or preventing a change in our control and may adversely affect the market price of the Common Stock and the voting and other rights of the holders of our Common Stock.

Anti-Takeover Effects of Pennsylvania Law and our Articles of Incorporation and Bylaws

Articles of Incorporation and Bylaws

Provisions of our Articles of Incorporation and Bylaws may delay or discourage transactions involving an actual or potential change of control or change in our management, including transactions in which shareholders might otherwise receive a premium for their shares, or transactions that our shareholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our Common Stock. Among other things, our Articles of Incorporation and Bylaws:

- divide our Board into three classes with staggered three-year terms;
- provide that a special meeting of shareholders may be called only by a majority of our Board;
- establish advance notice procedures with respect to shareholder proposals to be brought before a shareholder meeting and the nomination of candidates for election as directors, other than nominations made by or at the direction of the Board or a committee of the Board;
- provide that shareholders may only act at a duly organized meeting; and
- provide that members of our Board of directors may be removed from office by our shareholders only for cause by the affirmative vote of 75% of the total voting power of all shares entitled to vote generally in the election of directors.

Our Bylaws also provide that, unless we consent in writing to the selection of an alternative forum, a state or federal court located within the County of Chester in the Commonwealth of Pennsylvania will be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of our Company, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers or other employees or our shareholders, (iii) any action asserting a claim arising pursuant to any provision of the PBCL, or (iv) any action asserting a claim peculiar to the relationships among or between our Company and our officers, directors and shareholders. When there are no federal courts located in the County of Chester, as is currently the case, the exclusive forum provision of our Bylaws establishes exclusive jurisdiction for the matters above in the state courts of the County of Chester. However, such provision does not establish exclusive jurisdiction in the state courts of the County of Chester for claims that arise under the Securities Act, the Exchange Act or other federal securities laws if there is exclusive or concurrent jurisdiction in the federal courts.

Pennsylvania Anti-Takeover Law

Provisions of the PBCL applicable to us provide, among other things, that:

- we may not engage in a business combination with an "interested shareholder," generally defined as a holder of 20% of a corporation's voting stock, during the five-year period after the interested shareholder became such except under certain specified circumstances;
- holders of our Common Stock may object to a "control transaction" involving us (a control transaction is defined as the acquisition by a person or group of persons acting in concert of at least 20% of the outstanding voting stock of a corporation), and demand that they be paid a cash payment for the "fair value" of their shares from the "controlling person or group";
- holders of "control shares" will not be entitled to voting rights with respect to any shares in excess of specified thresholds, including 20% voting control, until the voting rights associated with such shares are restored by the affirmative vote of a majority of disinterested shares and the outstanding voting shares of the Company; and
- any "profit," as defined, realized by any person or group who is or was a "controlling person or group" with respect to us from the disposition of any equity securities of within 18 months after the person or group became a "controlling person or group" shall belong to and be recoverable by us.

Pennsylvania-chartered corporations may exempt themselves from these and other anti-takeover provisions. Our Articles of Incorporation do not provide for exemption from the applicability of these or other anti-takeover provisions in the PBCL.

The provisions noted above may have the effect of discouraging a future takeover attempt that is not approved by our Board but which individual shareholders may consider to be in their best interests or in which shareholders may receive a substantial premium for their shares over the then current market price. As a result, shareholders who might wish to participate in such a transaction may not have an opportunity to do so. The provisions may make the removal of our Board or management more difficult. Furthermore, such provisions could result our Company being deemed less attractive to a potential acquiror and/or could result in our shareholders receiving a lesser amount of consideration for their shares of our Common Stock than otherwise could have been available either in the market generally and/or in a takeover.

FIRST AMENDMENT TO EMPLOYEE MATTERS AGREEMENT

THIS FIRST AMENDMENT TO EMPLOYEE MATTERS AGREEMENT (this "Agreement"), dated as of February 12, 2020, is entered into by and between Recro Pharma, Inc., a Pennsylvania corporation ("Recro"), and Baudax Bio, Inc., a Pennsylvania corporation ("Baudax"). "Party" or "Parties" means Recro or Baudax, individually or collectively, as the case may be.

RECITALS

WHEREAS, Baudax and Recro are parties to that certain Employee Matters Agreement, dated as of November 20, 2019 (the "<u>Agreement</u>"), pursuant to which each of Baudax and Recro have agreed to provide to the other certain transition services, as more particularly described and upon the terms and subject to the conditions set forth in the Agreement;

WHEREAS, pursuant to Section 7.1 of the Agreement, which incorporated by reference Section 10.10 of that certain Separation Agreement, by and between Recro and Baudax dated as of November 20, 2019 (the "Separation Agreement"), the Agreement may not be terminated, modified or amended except by an agreement in writing signed by Recro and Baudax;

WHEREAS, Baudax and Recro desire to amend the Agreement as set forth herein in accordance with Section 10.10 of the Separation Agreement.

NOW, THEREFORE, in consideration of the foregoing and the respective covenants and agreements set forth herein, and intending to be legally bound hereby, the Parties agree as follows:

ARTICLE I AGREEMENT

Section 1.1. **Definitions**. Capitalized terms used but not otherwise defined herein shall have the meanings ascribed to such terms in the Agreement.

Section 1.2. Amendments to Agreement.

(a) Section 1.3 is hereby amended and restated in its entirety as follows:

"<u>Baudax Employee</u>" means any individual who, as of the Distribution Effective Time, is either actively employed by or then on a short-term leave of absence from Baudax or a Baudax Group member (including maternity, paternity, family, sick, short-term disability leave, qualified military service under the Uniformed Services Employment and Reemployment Rights Act of 1994, and leave under the Family Medical Leave Act and other approved leaves) or who is employed by Recro or a Recro Group member and who becomes a Baudax Employee pursuant to the operation of this Agreement or who is employed by Baudax or a Baudax Group member after the Distribution Effective Time but prior to the Benefits Commencement Date. (b) Section 1.8 is hereby amended and restated in its entirety as follows:

"Benefits Commencement Date" means January 1, 2021 unless otherwise negotiated between the Parties.

Section 1.3. **No Other Changes**. Except as expressly provided in this Amendment, all provisions of the Agreement shall remain in full force and effect and are not modified by this Amendment.

ARTICLE II GENERAL

Section 2.1. **Governing Law**. This Amendment and any Dispute related hereto shall be governed by and construed in accordance with the Laws of the Commonwealth of Pennsylvania, U.S.A., without giving effect to the conflicts of laws principles thereof that might lead to the application of laws other than the Laws of the Commonwealth of Pennsylvania.

Section 2.2. Miscellaneous. The provisions of Article VII of the Agreement shall apply, *mutatis mutandis*, as if fully set forth in this Amendment.

Section 2.3. **Counterparts**. This Amendment may be executed in any one or more counterparts, all of which shall be considered one and the same agreement, and shall become effective when one or more counterparts have been signed by each of the Parties and delivered to each of the Parties.

[Signature page follows]

IN WITNESS WHEREOF, the Parties have caused this First Amendment to Employee Matters Agreement to be duly executed as of the day and year first above written.

RECRO PHARMA, INC.

Gle Henwood

By: _

Name: Gerri Henwood Title: President and Chief Executive Officer

BAUDAX BIO, INC.

By: _____ Name: Ryan Lake Title: Chief Financial Officer and Treasurer

[Signature Page to First Amendment to Employee Matters Agreement]

Exhibit 10.29

EXECUTION COPY

LICENSE AND SUPPLY AGREEMENT

by and between

ALKERMES PHARMA IRELAND LIMITED

and

KREMERS URBAN PHARMACEUTICALS INC.

Effective as of January 1,2014

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LICENSE AND SUPPLY AGREEMENT

This LICENSE AND SUPPLY AGREEMENT ("<u>Agreement</u>"), effective as of January 1, 2014 (the "<u>Effective Date</u>") is by and between ALKERMES PHARMA IRELAND LIMITED, a limited liability company incorporated under the laws of Ireland ("<u>Alkermes</u>"). and KREMERS URBAN PHARMACEUTICALS INC., an Indiana corporation ("<u>KU</u>").

<u>WITNESETH</u>

WHEREAS, Alkermes is engaged, among other things, in the business of researching, development, manufacturing and commercialization of pharmaceutical products, inter alia, verapamil hydrochloride;

WHEREAS, KU is engaged, among other things, in the business of marketing and selling of pharmaceutical products;

WHEREAS UCB, Inc. (a KU Affiliate) currently maintains certain rights to market and sell certain branded and authorized generic Products (as defined below) under the UCB Agreement (defined below) which expires on December 31, 2013; and

WHEREAS, subject to the terms and conditions set forth in this Agreement, Alkermes wishes to (i) license KU certain rights to enable KU to market and sell Products (defined below) in the Territory (defined below) following the expiration of the UCB Agreement and (ii) manufacture and supply such Products to KU;

NOW, THEREFORE, the parties hereto, intending to be legally bound, hereby agree as follows:

SECTION 1 DEFINITIONS

For purposes of this Agreement, the following terms shall have the meanings set forth below:

"<u>Activities</u>" shall mean the manufacturing, promoting, marketing, selling and distributing of the Products in the Territory as contemplated by this Agreement,

"<u>Affiliates</u>" shall mean, with respect to any Person, any Persons directly or indirectly controlling, controlled by, or under common control with, such other Person,

"Alkermes" shall have the meaning set forth in the preamble.

"Annual Net Sales" shall mean, for any Year, the Net Sales for such Year.

"<u>Authorized Generic</u>" shall mean a drug sold, licensed or marked under an NDA (as opposed to an ANDA) approved by the FDA under section 505(c) of the Federal Food, Drug and

Cosmetics Act and marketed and distributed under a different labeler code, product code, trade name, trademark or packaging than the corresponding brand drug,

"Branded-Product" shall mean the Branded V Product and/or the Branded VPM Product

"Branded V Product" shall mean the V Product that is sold under the Trademarks licensed to KU for Product pursuant to this Agreement.

"Branded VPM Product" shall mean the VPM Product that is sold under the Trademarks licensed to KU for Product pursuant to this Agreement.

"CFR" shall mean the U.S. Code of Federal Regulations, as amended from time to time.

"<u>CMC Section</u>" shall mean the chemistry, manufacturing, and controls section of the NDAs as defined in 21 CFR Section 314.50 (1).

"<u>Damages</u>" shall mean, subject to <u>Section 9.7</u>, any and all actions, costs, losses, claims, liabilities, fines, penalties, demands, damages and expenses, court costs, and reasonable fees and disbursements of counsel, consultants and expert witnesses incurred by a party hereto (including interest which may be imposed in connection therewith).

"<u>Defective</u>" shall mean, as to any Product supplied by Alkermes hereunder, the failure of such Product to conform to the Specifications and the applicable NDA, and, in all material respects, applicable law, including, without limitation, the PDMA.

"Effective Date" shall have the meaning set forth in the preamble.

"FDA" shall mean the United States Food and Drug Administration.

"Generic V Product" shall have the meaning set forth in Section 2.6.

"Generic VPM Product" shall have the meaning set forth in Section 2.6.

"Generic VPM Operating Profits" shall mean [***].

"Generic VPM Product Profits" shall mean, [***].

"GMP" shall mean current Good Manufacturing Practices, as determined from time to time by the FDA or any other successor agency thereto.

"HSR Act" shall mean the Hart-Scott-Rodino Antitrust Improvement Act.

"Indemnified Party" shall have the meaning set forth in Section 9.2 hereof.

"Indemnifying Party" shall have the meaning set forth in Section 9.2 hereof.

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"Independent Third Party" shall mean any person other than Alkermes and KU and their respective Affiliates.

"Intellectual Property" shall mean the Trademarks. For the avoidance of doubt, Intellectual Property shall exclude any intellectual property of any nature that is owned, licensed or controlled by Affiliates or subsidiaries of Alkermes. In the event that Alkermes acquires or merges with a third party entity, Intellectual Property shall not include any Intellectual Property to the extent that such Intellectual Property relates to a product containing verapamil hydrochloride which has been approved for marketing or is in development by the said third party entity. For the avoidance of doubt, the occurrence of any such acquisition or merger shall not affect the license of the Intellectual Property granted to KU hereunder.

"Joint Marketing Committee" shall have the meaning set forth in Section 2.5.

"KU" shall have the meaning set forth in the preamble.

"Licensed Assets" shall have the meaning set forth in Section 2.1 hereof.

"NDAs" shall mean, collectively, the V NDA and the VPMNDA.

"<u>Net Sales</u>" shall mean, with respect to each Product, the dollar amount determined by deducting from the gross invoiced sales price billed for such Product sold by KU in the Territory to unaffiliated third parties in an arm's length transaction, the following:

- (a) trade and reasonable and customary cash discounts allowed;
- (b) returns, credits, refunds, rebates, chargebacks, retroactive price adjustments, commissions and any other allowances which effectively reduce the net selling price;
- (b) transportation charges or allowances, including freight pickup allowances; and
- (d) any tax (excluding income tax), excise or other governmental charges upon or measured by the production, sale, transportation, delivery or use of such Product.

Such amounts shall be determined from books and records maintained in accordance with U.S. GAAP, consistently applied.

"Notice of Rejection" shall have the meaning set forth in Section 4.4(a).

"<u>PDMA</u>" shall mean the Prescription Drug Marketing Act of 1987, as amended from time to time, together with any rules or regulations promulgated thereunder.

"<u>Person</u>" shall mean a natural person, a corporation, a partnership, a trust, a joint venture, a limited liability company, any governmental authority or any other entity or organization.

"<u>PPI</u>" shall mean the Producer Price Index for Pharmaceutical Preparations published by the U.S. Department of Labor, Bureau of Labor Statistics for the twelve months ending on August 31st in any Year.

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"Products" shall mean, collectively, the Branded VPM Product, Branded V Product and/or Generic VPM Pro duct manufactured and supplied to KU by Alkermes under this Agreement.

"<u>Promotional Materials</u>" shall mean any tangible advertising and promotional labeling bearing a name (trade name or generic name) used in the promotion of the Products, including, without limitation, promotional materials produced by KU (examples include, but are not limited to, journal ads, brochures, service items, managed care pull through sheets, formulary presentations, price lists, monographs, Internet pages and telephone or television advertisements) and materials produced by outside sources (examples include, but are not limited to, medical reprints, textbooks and CME materials) to the extent funded by, created in cooperation with, reviewed, or distributed by KU. The definition of Promotional Materials shall also include press releases and other releases of information to the media regarding the Products.

"<u>Quarter</u>" shall mean, as the case may be, the three months ending on March 31, June 30, September 30 or December 31 in any Year.

"Specifications" shall mean, at any time and as to either Product, the specifications for such Products that are then approved by the FDA and contained in the NDA applicable to such Product, as in effect at that time.

"<u>Technology</u>" includes all of the intellectual property owned or controlled by Alkermes that is used in, claims or covers the manufacturing process used by Alkermes and its Affiliates to manufacture the Products supplied to KU hereunder, or any aspect of such manufacturing process.

"<u>Territory</u>" shall mean the fifty (50) states, the District of Columbia and the territories and possessions comprising the United States of America, including Puerto Rico.

"Trademarks" shall mean all of Alkermes's right, title and interest in and to:

- (a) those United States trademarks and trademark applications set forth on Schedule 6.4 hereto and any trademark application or trademark which constitutes an extension, registration, contribution, reissue, renewal, reexamination or continuation in part of any such trademark or trademark application; and
- (b) all registrations thereof, all variations thereof and logos used in connection therewith, and all goodwill associated therewith.

"<u>UCB Agreement</u>" shall mean that that certain License and Supply Agreement dated 30 September 1998, as amended, relating to Products that currently exists between UCB and Alkermes (the "Agreement") which is due to expire on December 31, 2013.

"<u>UCB</u>" shall mean KU's affiliate company, UCB, Inc.

"U.S. GAAP" shall mean generally accepted accounting practices in the United States, as in effect from time to time.

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"<u>V Product</u>" shall mean [***].

"<u>V NDA</u>" shall have the meaning set forth in <u>Section 2.1(b)</u>.

"<u>VPM Product</u>" shall mean [***].

"<u>VPM NDA</u>" shall have the meaning set forth in <u>Section 2.1(a)</u>.

"Year" shall mean a calendar year during the term of this Agreement.

SECTION 2 GRANT OF LICENSES

2.1. Grant of Marketing and Sales Licenses

. Alkermes hereby grants to KU an exclusive, even as to Alkermes (except as set forth in <u>Section 2.3</u>), license under the following assets solely for the purpose of promoting, marketing, selling and distributing the Products in the Territory (such assets are referred to herein collectively as the "<u>Licensed Assets</u>"):

(a) all of Alkermes's rights under the New Drug Applications filed by Alkermes with, the FDA for the VPM Product, and all subsequent submissions thereto (collectively, the "<u>VPM NDA</u>"), which VPM NDA is described in <u>Schedule 2.1(a)</u>:

(b) all of Alkermes's rights under the approved New Drug Applications filed by Alkermes with the FDA for the V Product, and all subsequent submissions thereto (collectively, the "<u>V NDA</u>"). which V NDA is described in <u>Schedule 2.1(b)</u>; and

(c) the Intellectual Property;

2.2. Sublicenses

. The licenses granted herein shall not be sublicensed by KU without the prior written consent of Alkermes.

2.3. Alkermes Retained Rights

. Anything herein contained to the contrary notwithstanding, Alkermes shall retain at all times during the term of this Agreement, and shall bear all costs associated with, all rights necessary: (a) to manufacture, or to have manufactured, the Products for KU hereunder and otherwise fulfill its obligations under this Agreement, (b) to manufacture or have the products manufactured in the Territory, (c) to manufacture, have manufactured, use or sell the Products outside of the Territory, and (d) subject to <u>Section 8.3</u>, to make such changes as Alkermes may deem reasonably appropriate in connection with any differing approach to manufacturing it may adopt in a facility(ies) in which any of the components of the Products are produced.

2.4. Marketing Efforts

(a) KU shall use efforts to market and promote each Product throughout the Territory that are commercially reasonable given the market in which the relevant Product is marketed and the branded or generic status of the relevant Product. At the first meeting of the Joint Marketing Committee (as hereinafter defined) following the

Effective Date, KU will outline its intended activities with respect to each Product during the Term. KU shall not stock out on any Product (i.e., Branded V Product, Branded VPM Product or Generic VPM Product) or any strength of any Product except as discussed with the Joint Marketing Committee in accordance with <u>Section 2.4(b)</u> below . and shall conduct its promotional activities, including without limitation, its marketing and discount policies, in accordance with law and with normal business practice.

(b) If either party wishes to discontinue the manufacture and/or marketing of any particular Product or dosage strength of Product, then it shall notify the other party and the parties shall meet and discuss the reason for any such potential discontinuance. In circumstances where any Brand Product or dosage strength of any Brand Product is discontinued, then the financial provisions relating to the Generic VPM Product shall be altered in accordance with <u>Section 3.1</u> below.

(c) KU (or a KU affiliate or permitted licensee) will not sell any Product together with other products to third parties by a method commonly known in the pharmaceutical industry as "bundling".

2.5. Joint Marketing Committee

. Within thirty (30) days after the Effective Date, the parties will establish a joint marketing committee ("Joint Marketing Committee") consisting of an equal number of representatives from each party. At meetings of the Joint Marketing Committee, the parties will discuss matters relating to the Products, including sales performance of the Products in the Territory, marketing approaches, educational campaigns, Promotional Materials and other advertising materials and campaigns, sales plans and results. Unless otherwise agreed by the parties, the Joint Marketing Committee shall meet at least twice each Year alternatively at the offices of Alkermes and KU, or as otherwise agreed by the parties. Each Party shall bear the cost of its own travel and other expenses incurred in connection with any meetings or activities of the Joint Marketing Committee. Meetings shall be chaired alternately by the respective representatives of the parties,

2.6. Generic Products

. The license pursuant to <u>Section 2.1</u> includes the right of KU, in its sole discretion, to provide for, market and sell an Authorized Generic substitute for the VPM Product ("<u>Generic VPM Product</u>"). The license pursuant to <u>Section 2.1</u> does not include the right of KU to provide for, market and sell an Authorized Generic or other generic substitute of the V Product ("<u>Generic V Product</u>"), which rights shall be exclusively held by Alkermes.

SECTION 3 PAYMENT PROVISIONS

3.1. Consideration

. KU shall payAlkermes for Product manufactured and supplied to KU under this Agreement in accordance with the terms set out in <u>Schedule</u> <u>3.1</u> of this Agreement.

3.2. Invoice and Payment

. Upon delivery of any Product shipment, Alkermes shall be entitled to submit invoices therefor to KU, and KU agrees to remit payment within thirty (30) days from receipt of the invoice.

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3.3. Taxes

. All payments to Alkermes are exclusive of any applicable value added, sales or any other similar or substitute tax, for which KU shall be additionally liable, if applicable.

3.4. Records and Audit

(a) KU and its Affiliates shall keep full, true and accurate books of account containing all particulars that may be necessary for the purpose of showing the amounts payable to Alkermes hereunder. Such books of account shall be kept at KU's principal place of business or the principal place of business of the appropriate Affiliate of KU to which this Agreement relates. Such books and the supporting data shall be open, at all reasonable times and upon reasonable notice during the term of this Agreement and for two (2) years after its termination, to the inspection of a firm of certified public accountants selected by Alkermes and reasonably acceptable to KU, for the limited purpose of verifying KU's royalty statements; provided, however, that such examination shall not take place more often than once each Year and shall not cover more than the preceding 3 Years, with no right to audit any period previously audited. Except as otherwise provided in this Section, the cost of any such examination shall be paid by Alkermes. In the event that any such inspection reveals a deficiency (in accordance with U.S. GAAP) in excess of [***] of the reported royalty for the period covered by the inspection, KU shall promptly pay Alkermes the deficiency, plus interest, and shall reimburse Alkermes for the fees and expenses paid to such accountants in connection with their inspection. The parties agree that neither party shall be required to retain books and records with respect to the above other than books and records relating to the current Year and the immediately preceding three (3) Years.

(b) Alkermes and its Affiliates shall keep full, true and accurate books of account containing all particulars that may be necessary for the purpose of showing the cost of manufacturing the Products and Product samples supplied hereunder. Such books of account shall be kept at Alkermes's principal place of business or the principal place of business of the appropriate Affiliate of Alkermes to which this Agreement relates. Such books and the supporting data shall be open, at all reasonable times and upon reasonable notice during the term of this Agreement and for two (2) years after its termination, to the inspection of a firm of certified public accountants selected by KU and reasonably acceptable to Alkermes, for the limited purpose of verifying the cost of manufacturing the Products and Product samples supplied hereunder; provided, however, that such examination shall not take place more often than once each Year and shall not cover more than the preceding three (3) Years, with no right to audit any period previously audited. Except as otherwise provided in this <u>Section 3.2</u>, the cost of any such examination shall be paid by KU. In the event that any such inspection reveals that the amount charged or reported exceeds the actual amount by more than [***] during the period covered by the inspection, Alkermes shall promptly pay KU the excess, plus interest, and shall reimburse KU for the fees and expenses paid to such accountants in connection with their inspection. The parties agree that neither party shall be required to retain books and records with respect to the above other than books and records relating to the current Year and the immediately preceding three (3) Years.



3.5. Quarterly Reports

. In any Year, KU shall, within [***] after the end of each Quarter, deliver to Alkermes true and accurate reports, certified by an authorized official of KU, setting forth the actual Net Sales recorded during such Quarter and the total amounts due under <u>Section 3.1</u> for such Quarter. If no monies shall be due, KU shall so report.

3.6. Late Payments

. Any amounts not paid by KU to Alkermes when due under this Agreement shall be subject to interest from and including the date payment is due through and including the date upon which Alkermes has collected immediately available funds in an account designated by KU at a rate equal to the sum of [***].

3.7. Withholding

. Any income or other taxes which KU is required by law to pay or withhold on behalf of Alkermes with respect to monies payable to Alkermes under this Agreement shall be deducted from the amount of such monies due. KU shall provide Alkermes with proof of such payments. Any such tax required to be paid or withheld shall be an expense of and be borne solely by Alkermes. KU shall promptly provide Alkermes with a certificate or other documentary evidence to enable Alkermes to support a claim for a refund or a foreign tax credit with respect to any such tax so withheld or deducted by KU. The parties shall reasonably cooperate in completing and filing documents required under the provisions of any applicable tax treaty or under any other applicable law in order to enable KU to make such payments to Alkermes without any deduction or withholding.

SECTION 4 SUPPLY OF PRODUCTS

4.1. Supply of Product

(a) During the term of this Agreement, KU agrees to order and purchase Products exclusively from Alkermes in accordance the batch sizes and minimum order quantities set forth in <u>Schedule 4.1</u> and Alkermes agrees to supply Products exclusively to KU.

Alkermes will supply KXJ with all of its requirements for Products and the Products samples for their subsequent use, sale, lease or transfer by KU.

(b) KU agrees to initiate purchases of Products and samples of the Products hereunder by issuing Alkermes purchase orders in accordance with the requirements set forth in <u>Schedule 4.1</u> not less than [***]. Subject to <u>Section 4.1(c)</u>, Alkermes agrees to accept any order issued in accordance with this <u>Section 4.1(b)</u> which specifies quantities reasonably consistent with those set forth in the purchase forecasts for such Quarter and to meet the delivery dates specified thereon. All purchase orders hereunder shall be on KU's standard purchase order form (a copy of which has been delivered to Alkermes) and shall be directed to Alkermes at the address set forth below. KU shall maintain at all times inventory of the Product in the ordinary course.

(c) The Parties shall reasonably cooperate with respect to Product production schedules. In particular, the parties will routinely review through then supply teams the 18 month forecast provided by KU in accordance in <u>Section 4.3</u> below and Alkermes

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shall advise KU of any scheduling conflicts. If KU submits any purchase order for Branded V Product with a delivery date or dates that are not aligned with Alkermes' overall production schedule as discussed by the supply teams with respect to the 18 month forecast, then Alkermes shall have the right to reject such purchase order. Alkermes shall not, however, reject any purchase order for Branded V Product submitted by KU with a delivery date or dates that are aligned with such production schedule, as discussed by the Parties' supply teams.

(d) Alkermes shall use commercially reasonable efforts to maximize the life of the Products supplied to KU pursuant to this Agreement; provided that such Products shall have at least a [***]. If any Product that is to be delivered to KU will have a shelf life of less than [***], then Alkermes shall notify KU prior to shipment of such Product, and Alkermes and KU shall discuss in good faith the disposition of such Product. If Alkermes and KU are not able to reach agreement on the disposition of such Product, then such Product shall not be shipped to KU.

4.2. Identification

. KU may market the Products under its name and NDC number, with its packaging and logo; KU will, however, identify Alkermes as the manufacturer in a fair manner, reasonably acceptable to Alkermes. Alkermes will retain title to its own product names, which will be displayed in an appropriate manner on the Products. Alkermes and KU shall share equally all costs of labeling the Products so as to appropriately display the KU name provided KU supplies all the appropriate graphics, designs, logos and related and appropriate artwork. KU may use Alkermes's name and derivations thereof in promoting, marketing and selling the Products in the Territory; provided, however, that the particular formulation of any reference to Alkermes's name in any Promotional Material shall be subject to Alkermes's review and consent; and provided, further, that once the formulation of any such reference has been reviewed and consented to by Alkermes, any subsequent reference to Alkermes's name using such formulation or a substantially similar formulation shall not be subject to the review or

consent of Alkermes. All samples shall be clearly marked "for sample use only" or comparable mutually agreed language on the sample package labeling.

4.3. Forecasts, Delivery and Quality.

(a) Subject to <u>Section 4.1(c)</u>, KU shall provide Alkermes with [***]. These forecasts will be revised and extended in each succeeding Quarter.

(b) Delivery of Products shall be in accordance with the destination and dates set forth in KU's purchase order. Delivery shall be F.O.B. point of shipment, and identification and delivery of the Products shall be deemed to have occurred when they have been packed for shipment and delivered to a common or contract carrier, at which time title and risk of loss shall pass to KU. KU shall fully insure all Products from the time when risk of loss for such Products passes as aforesaid and shall produce evidence of such insurance at the request of Alkermes.

(c) All deliveries of Products hereunder shall include a certificate of analysis provided by the quality assurance manager of Alkermes attesting to the fact that such Products (i) have been manufactured and packaged by a process which complies with GMP and (ii) are of quality which is in accordance with criteria established in the Specifications and all requirements of the FDA and applicable law. All Products, when delivered, shall be packaged and ready for commercial sale or distribution.

(d) The Products supplied hereunder shall have been manufactured by a process which complies with the quality agreement that is agreed in writing between the parties.

4.4. Rejection and Replacement.

(a) In the event KU determines that any Product as manufactured is Defective, then, [***], KU shall provide to Alkermes a written notice of rejection, specifying in reasonable detail the manner in which such Product is Defective (the "<u>Notice of Rejection</u>"). If in the event that KU discovers any latent defects as to any Product, KU shall provide Alkermes a Notice of Rejection [***]. If no written Notice of Rejection is given to Alkermes by KU [***], such Product shall be deemed to have been accepted by KU, provided, however, that nothing contained in this <u>Section 4.4(a)</u> shall be deemed to relieve Alkermes of its obligations under the warranties set forth in <u>SECTION 6</u> below.

(b) Upon receipt of a Notice of Rejection from KU and in order to minimize any hardship to KU's customers, Alkermes shall either (i) supply to KU a quantity of replacement Products meeting the Specifications equal to the size of the lot which KU claims was Defective so that such replacement Products are received by KU [***] following Alkermes's receipt of KU's Notice of Rejection or (ii) notify KU that it protests such Notice of Rejection and submit the Products subject to such Notice of Rejection to a mutually agreeable independent laboratory for testing [***] of its sending the notice of protest. Such independent laboratory shall evaluate the Products

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subject to such Notice of Rejection within 30 days. The evaluation of such independent laboratory shall, absent manifest error, be binding. The costs and expenses relating to any rejection, testing and replacement of Products pursuant to this <u>Section 4.4</u> shall be paid by Alkermes, or, if submitted to an independent laboratory, by the non-prevailing party.

SECTION 5 ASSIGNED UCB STOCK

5.1. Generic VPM Stock

. As of the Effective Date of this Agreement, KU accepts and assumes full responsibility for any Generic VPM Product stock that has been fully transferred and assigned by UCB to KU under the UCB Agreement. Alkermes and KU hereby agree that as of the Effective Date of this Agreement, such Generic VPM Product stock shall be deemed and treated solely as Product falling within the scope of this Agreement as though such Generic VPM Product was supplied hereunder, and any rights, obligations, liabilities and/or remedies with respect to any such Generic VPM Product was paid for or will be paid for by UCB pursuant to the UCB Agreement and KU shall have no obligation to Alkermes in respect of the Supply Price of such Generic VPM Product but will remain responsible for compensating Alkermes for any Generic VPM Operating Profits or Generic VPM Product Profits for such Product at the time that such Product is sold. Within thirty (30) days of the Effective Date of this Agreement, KU shall provide Alkermes with a complete inventory of all such Generic VPM Product.

5.2. Branded Product Stock

. On or after the Effective Date, KU shall not sell or supply any Branded Product that was manufactured and supplied under the UCB Agreement.

SECTION 6 REPRESENTATIONS AND WARRANTIES OF ALKERMES

Alkermes hereby represents and warrants to KU that:

6.1. Organization, Power and Authority

. Alkermes is a company duly organized and validly existing under the laws of Ireland. As of the Effective Date, Alkermes has all necessary corporate power and authority to enter into, and be bound by the terms and conditions of, this Agreement, and to license the Licensed Assets to KU pursuant hereto.

6.2. Due Authority; No Breach

. The execution, delivery and performance by Alkermes of this Agreement and each agreement or instrument contemplated by this Agreement, and the performance of the transactions contemplated hereby and thereby, have been duly authorized by all necessary corporate action by Alkermes. This Agreement is, and each agreement or instrument contemplated by this Agreement, when executed and delivered by Alkermes in accordance with the provisions hereof, will be (assuming the due execution and delivery hereof and thereof by KU) the legal, valid and binding obligation of Alkermes, in each case enforceable against Alkermes in accordance with its terms, except as such enforceability may be limited by applicable bankruptcy, insolvency, moratorium, reorganization, or similar laws from time to time

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in effect which affect the enforcement of creditors' rights generally and by legal and equitable limitations on the availability of specific performance and other equitable remedies against Alkermes. All persons who have executed this Agreement on behalf of Alkermes, or who will execute on behalf of Alkermes any agreement or instrument contemplated by this Agreement, have been duly authorized to do so by all necessary corporate action. Neither the execution and delivery of this Agreement or any such other agreement or instrument by Alkermes, nor the performance of the obligations contemplated hereby and thereby, will (i) conflict with or result in any violation of or constitute a breach of any of the terms or provisions of, or result in the acceleration of any obligation under, or constitute a default under any provision of the organizational documents or By-laws of Alkermes or any material contract or any other material obligation to which Alkermes is a party or to which it is subject or bound, or (ii) violate any judgment, order, injunction, decree or award of any court, administrative agency, arbitrator or governmental body against, or affecting or binding upon, Alkermes or upon the securities, property or business of Alkermes, or (iii) constitute a violation by Alkermes except for such conflict, acceleration, default, breach or violation that is not reasonably likely to have a material adverse effect on Alkermes's ability to perform its obligations under this Agreement or under any agreement or instrument contemplated hereby.

6.3. <u>NDAs</u>

(a) Upon reasonable request and with sufficient notice, Alkermes will allow KU to visit its facilities and review the VPM NDA (other than the CMC Section), including all material amendments and supplements thereto. Alkermes or an Affiliate of Alkermes is the lawful holder of all rights under the VIM NDA. As of the Effective Date, Alkermes has complied in all material respects with all applicable laws and regulations with respect to the VPM NDA, and nothing has come to the attention of Alkermes which has, or reasonably should have, led Alkermes to believe that the VPM NDA will not be approved by the FDA. Other than pursuant to this Agreement, Alkermes has neither independently marketed, nor has it made arrangements for others to market the VPM Product in the Territory.

(b) Upon reasonable request and with sufficient notice, Alkermes will allow KU to visit its facilities and review the V NDA (other than the CMC Section), including all material amendments and supplements thereto. As of the Effective Date, Alkermes is the lawful holder of all rights under the V NDA and has the authority to grant the licenses under this Agreement, including licenses held by any of its affiliates under any other NDA. As of the Effective Date, Alkermes has complied in all material respects with all applicable laws and regulations in connection with the preparation and submission to the FDA of the V NDA, and the V NDA has been approved by and nothing has come to the attention of Alkermes which has, or reasonably should have, led Alkermes to believe that the V NDA is not in good standing with the FDA. As of the Effective Date, Alkermes has filed with the FDA all required notices, supplemental applications and annual or other reports, including adverse experience reports, with respect to the V NDA which are material to the ability of KU to conduct the Activities and no future action is required by the FDA to lawfully market the V Product in the Territory.

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6.4. Intellectual Property

(a) Set forth on <u>Schedule 6.4</u> hereto is a list of all Trademarks. Except as set forth on <u>Schedule 6.4</u> hereto, (i) Alkermes is the lawful owner of the Trademarks, (ii) Alkermes can license the Trademarks without the consent of any third party, (iii) there is no pending or overtly threatened claim against Alkermes asserting that any of the Trademarks infringe or violate the lights of third parties, and (iv) nothing has come to the attention of Alkermes which has led Alkermes to believe that any of the Trademarks infringe or violate the light of third parties. Alkermes has not given any notice to any third parties asserting infringement by such third parties upon any of the Licensed Assets. Alkermes is not aware of and has not received any communications challenging the ownership, validity or effectiveness of any of the Trademarks. Nothing has come to the attention of Alkermes has not given any notice to the attention of Alkermes which has led Alkermes which has led Alkermes to believe that the Activities infringe or violate the patent or trademark rights of third parties. Alkermes has not granted any right to any third party relating to the Activities which would violate the terms of or conflict with the rights granted to KU pursuant to this Agreement.

(b) Nothing has come to the attention of Alkermes, without any special search, which has led Alkermes to believe that the practice of the Technology in the manufacture of Product under this Agreement infringes or violates the rights of any Third Party.

6.5. Litigation

. There are no pending or, to Alkermes's knowledge without having carried out any special search, threatened judicial, administrative or arbitral actions, claims, suits or proceedings pending as of the date hereof against Alkermes which, either individually or together with any other, would have a material adverse effect on the ability of Alkermes to perform its obligations under this Agreement or any agreement or instrument contemplated hereby. To Alkermes's knowledge without having carried out any special search, there are no pending or threatened actions or suits relating to the Activities or the Licensed Assets.

6.6. Governmental Approval

. As of the Effective Date, other than the NDAs licensed to KU hereunder, no consent, approval, waiver, order or authorization of, or registration, declaration or filing with, any governmental authority is required in connection with the execution, delivery and performance of this Agreement, or any agreement or instrument contemplated by this Agreement, by Alkermes or the performance by Alkermes of its obligations contemplated hereby and thereby.

6.7. Brokerage

. No broker, finder or similar agent has been employed by or on behalf of Alkermes, and no Person with which Alkermes has had any dealings or communications of any kind is entitled to any brokerage commission, finder's fee or any similar compensation, in connection with this Agreement or the transactions contemplated hereby.

6.8. Compliance with Law

. Alkermes will comply with the provisions of this Agreement, all FDA and other approvals, all applicable state and local regulatory approvals and requirements and all applicable laws, ordinances and regulations, the noncompliance with which reasonably could have a material adverse effect on KU or the transactions contemplated hereby.



6.9. Implied Warranties

. EXCEPT AS EXPRESSLY PROVIDED IN THIS <u>Section 6</u>, ALKERMES MAKES NO REPRESENTATION OR WARRANTY AS TO THE LICENSED ASSETS, THE TECHNOLOGY OR THE ACTIVITIES, EITHER IN FACT OR BY OPERATION OF LAW, AND ALKERMES SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED OR STATUTORY WARRANTIES.

SECTION 7 REPRESENTATIONS AND WARRANTIES OF KU

KU represents and warrants to Alkermes that:

7.1. Organization, Power and Authority

. KU is a corporation duly organized, validly existing and in good standing under the laws of the State of Indiana. As of the Effective Date, KU has all necessary corporate power and authority to enter into, and be bound by the terms and conditions of, this Agreement, and to license the Licensed Assets from Alkermes pursuant hereto.

7.2. Due Authority; No Breach

. The execution, delivery and performance by KU of this Agreement, and each agreement or instrument contemplated by this Agreement, and the performance of the transactions contemplated hereby and thereby, have been duly authorized by all necessary corporate action by KU. This Agreement is, and each agreement or instrument contemplated by this Agreement, when executed and delivered by KU in accordance with the provisions hereof, will be (assuming due execution and delivery hereof and thereof by Alkermes) the legal, valid and binding obligation of KU, in each case enforceable against KU in accordance with its terms, except as such enforceability may be limited by applicable bankruptcy, insolvency, moratorium, reorganization, or similar laws from time to time in effect which affect the enforcement of creditors' rights generally and by legal and equitable limitations on the availability of specific performance and other equitable remedies against KU. All persons who have executed this Agreement on behalf of KU, or who will execute on behalf of KU any agreement or instrument contemplated by this Agreement, have been duly authorized to do so by all necessary corporate action. Neither the execution and delivery of this Agreement by KU, or any such other agreement or instrument by KU, nor the performance of the obligations contemplated hereby and thereby, will (i) conflict with or result in any violation of or constitute a breach of any of the terms or provisions of or result in the acceleration of any obligation under, or constitute a default under any provision of the Articles of Incorporation or By-laws of KU or any material contract or any other material obligation to which KU is a party or to which it is subject or bound, or (ii) violate any judgment, order, injunction, decree or award of any court, administrative agency, arbitrator or government body against, or affecting or binding upon, KU or upon the securities, property or business of KU, or (iii) constitute a violation by KU of any applicable law or regulation of any jurisdiction as such law or regulation relates to KU or to the property or business of KU, except for such conflict, acceleration, default, breach or violation that is not reasonably likely to have a material adverse effect on KU's ability to perform its obligations under this Agreement or any agreement or instrument contemplated hereby.

7.3. Brokerage

. No broker, finder or similar agent has been employed by or on behalf of KU, and no Person with which KU has had any dealings or communications of any kind is

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entitled to any brokerage commission, finder's fee or any similar compensation in connection with this Agreement or the transactions contemplated hereby.

7.4. Litigation

. There are no pending or, to KU's knowledge, threatened judicial, administrative or arbitral actions, claims, suits or proceedings pending as of the date hereof against KU which, either individually or together with any other, will have a material adverse effect on the ability of KU to perform its obligations under this Agreement or any agreement or instrument contemplated hereby.

7.5. Governmental Approval

. No consent, approval, waiver, order or authorization of, or registration, declaration or filing with, any governmental authority is required in connection with the execution, delivery and performance of this Agreement, or any agreement or instrument contemplated by this Agreement, by KU or the performance by KU of its obligations contemplated hereby and thereby.

7.6. Compliance with Law

. KU will comply with the provisions of this Agreement, all FDA and other approvals, all applicable state and local regulatory approvals and requirements and all applicable laws, ordinances and regulations, the noncompliance with which reasonably could have a material adverse effect on Alkermes or the transactions contemplated hereby.

SECTION 8 COVENANTS ANDAGREEMENTS OF THE PARTIES

8.1. Governmental Filings

. Alkermes and KU each agree to prepare and file whatever filings, requests or applications are required to be filed with any governmental authority in connection with this Agreement and to cooperate with one another as reasonably necessary to accomplish the foregoing.

8.2. <u>Responsibility for NDAs</u>

(a) Alkermes shall, or shall cause its applicable Affiliate to, maintain the existing NDAs.

(b) Alkermes shall remain responsible for fulfilling all regulatory requirements with respect to the Products that are imposed upon Alkermes as the owner of the NDAs; provided, however, Alkermes shall provide KU, upon reasonable request and with sufficient notice, with access to it facilities where KU may review filings submitted by Alkermes to the FDA (other than the CMC Section thereof) and the application summary, which provides a comprehensive summary of all clinical trials conducted under the NDAs. KU shall, on a timely basis, provide to Alkermes all information that KU has that Alkermes does not have that is reasonably necessary and relevant to Alkermes's obligations hereunder to fulfill such requirements including, but not limited to, sales distribution information concerning the Products, and shall otherwise cooperate with Alkermes as reasonably necessary in connection therewith. Without limiting the generality of the foregoing sentence, in the event that any supplements to the NDAs or any other regulatory requirements are necessitated as a result of transferring manufacturing of the Products from Alkermes to any other manufacturer or as a result of



any action by KU (including, but not limited to, acquisition by a third party of substantially all of the assets or outstanding shares of KU, or merger with KU) or such other manufacturer, KU shall, on a timely basis and at KU's expense, develop and provide to Alkermes all information that is reasonably necessary and relevant to Alkermes's obligation hereunder to file such supplements or to fulfill such requirements and shall otherwise cooperate with Alkermes as reasonably necessary in connection therewith. Alkermes shall have the final decision-making authority in every case on whether and how to supplement, amend or otherwise alter the NDAs and any other issues in connection with the NDAs and on whether and how to communicate with the FDA in connection therewith. KU shall submit to Alkermes for Alkermes's prior review and approval any request by KU to pursue approval of any new indication for the Products, to conduct any studies with respect to the Products, and to make any submissions to the FDA with respect to the Products; provided, however, that Alkermes shall have the right, in its reasonable judgment and based solely on the scientific merit of the request, to refuse any such request. If Alkermes elects to undertake such an obligation, such election shall be subject to Alkermes and KU mutually agreeing upon the terms and conditions of any such obligation.

(c) KU and Alkermes shall jointly agree written procedures and define responsibilities for (i) the reporting of adverse drag experiences, (ii) the submission by KU to Alkermes and by Alkermes to FDA of labeling and Promotional Materials related to the Products, (iii) the administration of and response to medical inquiries concerning the Products by consumers, physicians, pharmacists and other health care professionals, (iv) the administration and analysis of and response to complaints concerning the Products, and (v) the development of training materials related to the Products. KU and Alkermes shall each comply with the provisions of such written procedures.

8.3. Compliance with Law

. KU and Alkermes shall each comply with all federal, state and local laws and regulations applicable to manufacturing, marketing and selling the Products in the Territory, the Licensed Assets and the Technology or the performance of their respective obligations hereunder. Alkermes and KU each shall keep all records and reports required to be kept by applicable laws and regulations, and each shall make its facilities available at reasonable times during business hours for inspection by representatives of governmental agencies. Alkermes and KU each shall notify the other within [***] of receipt of any notice or any other indication whatsoever of any FDA or other governmental agency inspection, investigation or other inquiry, or other material notice or communication of any type, involving the Products. KU and Alkermes shall cooperate with each other during any such inspection, investigation or other inquiry. KU and Alkermes shall notify each other of any response to observations or notifications received in connection with any such inspection, investigation or other inquiry. In the event of disagreement concerning the form or content of such response, however, Alkermes shall be responsible for deciding the appropriate form and content of any response with respect to any of its cited activities and KU shall be responsible for deciding the appropriate form and content of any response with respect to any of its cited activities.

8.4. <u>Recall</u>

. KU shall notify Alkermes of all material information of which KU becomes aware concerning side effects, injury, toxicity or sensitivity reactions including incidence and severity thereof associated with commercial or clinical uses, studies, investigations or tests with

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the Products, whether or not determined to be attributable to the Products, which may constitute an adverse drug experience with respect to the Products under 21 C.F.R. 310.305 or 314.80. KU and Alkermes shall consult with one another as to all decisions concerning recall or withdrawal of any Product from the market, including, but not limited to, determining whether or not to make any such recall or withdrawal, the timing and scope thereof, and the means of conducting any recall or withdrawal. The party requesting any recall or withdrawal must receive the prior written consent of the other party, such consent not to be unreasonably withheld, prior to initiating such recall or withdrawal. No consent shall be necessary if the recall or withdrawal is required by the FDA or other governmental authority. Alkermes shall bear the costs (including but not limited to, shipping and product credits) for any recall or withdrawal primarily due to the failure of any Product to comply with, or be manufactured in accordance with, the Specifications, GMP, the NDA or applicable law. The costs for any other recall or withdrawal, withdrawal shall be the responsibility of KU. Each party will cooperate fully with the other in connection with any recall or withdrawal,

8.5. Confidentiality

. KU shall treat as confidential the Licensed Assets, the Technology, and all other information of Alkermes of which KU becomes aware in connection with this Agreement (collectively, "<u>Alkermes Proprietary Information</u>"). KU shall neither disclose Alkermes Proprietary Information to any third party nor use Alkermes Proprietary Information for any purpose other than as set forth in this Agreement. Alkermes shall treat as confidential all information of KU of which Alkermes becomes aware in connection with this Agreement (collectively, "<u>KU</u> <u>Proprietary Information</u>"). Alkermes shall neither disclose KU Proprietary Information to any third party nor use KU Proprietary Information for any purpose other than as set forth in this Agreement.

Nothing contained herein will in any way restrict or impair either party's (the "Using Party's") right to use, disclose or otherwise deal with any Proprietary Information of the other party which:

(a) at the time of disclosure is known to the public or thereafter becomes known to the public by publication or otherwise through no fault of the Using Party;

(b) the Using Party can establish was in its possession prior to the time of the disclosure and was not obtained directly or indirectly from the other party;

(c) is independently made available as a matter of right to the Using Party by a third party who is not thereby in violation of a confidential relationship with the other party;

(d) is developed by the Using Party independently of the Proprietary Information received from the other party and the Using Party can establish such development; or

(e) is information required to be disclosed by legal or regulatory process; provided, in each case the Using Party timely informs the other party and uses reasonable efforts to limit the disclosure and maintain confidentiality to the extent possible and permits the other party to intervene and contest or attempt to limit the disclosure.

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KU shall obtain no right or license of any kind under the Alkermes Proprietary Information except as set forth in this Agreement. Alkermes shall obtain no right or license of any kind under the KU Proprietary Information except as set forth in this Agreement

8.6. Expenses

. Alkermes and KU shall each bear their own direct and indirect expenses incurred in connection with the negotiation and preparation of this Agreement and, except as set forth in this Agreement, the performance of the obligations contemplated hereby.

8.7. Reasonable Efforts

. Alkermes and KU each hereby agrees to use all commercially reasonable efforts to take, or cause to be taken, all actions and to do, or cause to be done, all things necessary and proper to make effective the transactions contemplated by this Agreement.

8.8. Publicity

. The parties agree that no publicity release or announcement concerning the transactions contemplated hereby shall be issued without the advance written consent of the other, except as such release or announcement may be required by law, in which case the party making the release or announcement shall, before making any such release or announcement, afford the other party a reasonable opportunity to review and comment upon such release or announcement,

8.9. Cooperation

. If either party shall become engaged in or participate in any investigation, claim, litigation or other proceeding with any third-party, including the PDA, relating in any way to the Products or any of the Licensed Assets, or the Technology, the other party shall cooperate in all reasonable respects with such party in connection therewith, including, without limitation, using its reasonable efforts to make available to the other such employees who may be helpful with respect to such investigation, claim, litigation or other proceeding, provided that, for purposes of this provision, reasonable efforts to make available any employee shall be deemed to mean providing a party with reasonable access to any such employee at no cost for a period of time not to exceed twenty-four (24) hours (e.g., three 8-hour business days). Thereafter, any such employee shall be made available for such time and upon such terms and conditions (including, but not limited to, compensation) as the parties may mutually agree.

8.10. Competition; No Sale for Resale

(a) Except for the Generic V Product and as otherwise contemplated hereby, each of Alkermes and KU shall not directly or indirectly, develop, manufacture, market or sell any chronotherapeutic dosage formulations of sustained release verapamil hydrochloride. It is understood that the remedies at law are inadequate in the case of any breach of this covenant and that each of KU and Alkermes shall be entitled to equitable relief, including the remedy of specific performance, with respect to any breach of such covenant by the other.

(b) Neither KU nor any sublicensee of KU shall knowingly sell any Product to anyone in the Territory for subsequent distribution or resale outside the Territory and each shall take all reasonable precautions to prevent such distribution or resale outside the Territory. Alkermes shall not knowingly sell any Product to anyone in the Territory or



outside the Territory for subsequent distribution or resale in the Territory, and Alkermes shall take all reasonable precautions to prevent such distribution or resale in the Territory.

8.11. Conflicting Rights

. Alkermes shall not grant any right to any third party relating to the Activities which would violate the terms of or conflict with the rights granted to KU pursuant to this Agreement.

8.12. Trademark Maintenance

(a) Alkermes shall be solely responsible for filing, prosecuting, and maintaining all of the Trademarks, and Alkermes shall pay the costs associated therewith, Alkermes shall file, prosecute, and maintain all Trademarks so as to fully continue the benefits under the licenses granted to KU hereunder. In the event that any extension, registration, confirmation, renewal or reexamination is to be filed with respect to a Trademark, Alkermes shall provide KU with the opportunity to review such extension, registration, confirmation, renewal or reexamination and provide input thereto.

(b) KU shall not use the Trademarks in any way which might prejudice its distinctiveness or validity or the goodwill of Alkermes therein. KU shall not use, in relation to the Products, any trademarks other than the Trademarks without obtaining the prior consent in writing of Alkermes, such consent not to be unreasonably withheld or delayed. KU shall not use in the Territory any trademarks or trade names so resembling the Trademarks as to be likely to cause confusion or deception. KU shall promptly notify Alkermes in writing of any alleged infringement of which it becomes aware by a third party of the Trademarks and provide Alkermes with any applicable evidence of infringement.

(c) Alkermes will be entitled to conduct all proceedings relating to the Trademarks and shall at its sole discretion decide what action, if any, to take in respect of any infringement or alleged infringement of the Trademarks or passing-off or any other claim or counterclaim brought or threatened in respect of the use or registration of the Trademarks. Any such proceedings shall be conducted at Alkermes's expense and for its own benefit. In the event that Alkermes fails to take action in respect of any infringement or alleged infringement or alleged infringement of the Trademarks or passing-off or any other claim or counterclaim brought or threatened in respect of the use or registration of the Trademarks, KU may, in its sole discretion, take such action on behalf of Alkermes, at the expense of KU and for the benefit of KU.

(d) Use of the Trademark under this license shall be restricted to the Pre-Approved Form depicted in Schedule 6.4 or any other form approved in advance in writing by Alkermes from time to time in respect of Product offered for sale and sold in the Territory. KU undertakes to use the Trademark only in the aforementioned manner, observing any directions as may be provided by Alkermes from time to time.

(e) KU shall promote and properly use the trademark in accordance with the terms of this license agreement and will also accompany every permitted reference to the trademark with the following statement: "Verelan® is a registered trademark of Alkermes

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Pharma Ireland Limited", or any other statement prescribed by the licensor from time to time, unless Alkermes reasonably decides that due to space limitations on packaging or labeling or other factors such statement can appear solely on product package inserts.

8.13. Supply of Products

. Alkermes shall maintain the capacity throughout the term of this Agreement to meet the requirements of KU for Products hereunder.

8.14. Technology

. Alkermes shall be solely responsible for maintaining the Technology in accordance with the terms set forth in this Agreement.

8.15. Liability Insurance

. Alkermes shall obtain and carry in full force and effect product liability insurance in respect of the Products in the amount of [***]. KU shall obtain and carry in full force and effect product liability insurance in respect of the Products in the amount of [***].

8.16. Referral of Orders and Inquiries

. Alkermes shall refer all Persons sending orders or making inquiries regarding the Products within the Territory to KU and shall promptly notify KU of the name of each such Person and the nature of the inquiry of such Person.

8.17. Deemed Breach of Covenant

. Neither Alkermes nor KU shall be deemed to be in breach of any covenant contained in this <u>SECTION 8</u> if such party's deemed breach is the result of any action or inaction on the part of the other party.

8.18. Net Sales Deductions for Generic VPM Product

. KU may apply any Generic VPM allowances set out in items (a) through (d) of the Net Sales definition as a deduction in the Quarter in which they arise under this Agreement, irrespective of whether they related to Generic VPM Product that was supplied by Alkermes to KU under this Agreement or to UCB under the UCB Agreement.

8.19. Net Sale Deductions for Branded Product

(a) Any Branded Products that are returned that can be identified by a code of UCB or KU shall be for such party's account.

(b) KU's affiliate, UCB, is responsible for all rebates owing to the Government or pursuant to managed care agreements and similar arrangements ("Rebates") with respect to prescriptions for the Branded Products written on or prior to the Effective Date. With respect to prescriptions written on the Branded Product on or after the Effective Date of this Agreement, but prior to [***] after the Effective Date of this Agreement, KU shall not be entitled to apply as a Net Sales deduction under this Agreement.

(c) With respect to any chargebacks relating to Branded Products that were supplied to UCB under the UCB Agreement, UCB shall be responsible for all items submitted and KU shall not apply any such chargebacks to any Net Sales calculations under this Agreement. KU shall be responsible for, and may be entitled to apply as a Net Sales deduction to, all chargebacks submitted to KU which related to Branded Product supplied by Alkermes to KU under this Agreement.

8.20. Access to Information

. Anything to the contrary herein notwithstanding, Alkermes shall (i) permit representatives of KU, upon reasonable notice and request, to inspect such materials at Alkermes' facilities during normal business hours and (ii) permit reasonable access to Alkermes personnel for the purpose of effectuating the requirements of this <u>Section 8.20</u> and facilitating KU's review of the materials to be provided hereunder. Notwithstanding the foregoing, nothing in this paragraph shall be construed to require Alkermes to provide to KU information or documents protected by the attorney-client privilege and/or work product immunity.

SECTION 9

INDEMNIFICATION

9.1. Indemnification

(a) Alkermes shall indemnify, defend and hold KU (and its directors, officers, employees, and Affiliates) harmless from and against any and all Damages incurred or suffered by KU (and its directors, officers, employees, and Affiliates) as a consequence of:

(i) any breach of any representation or warranty made by Alkermes in this Agreement or any agreement, instrument or document delivered by Alkermes pursuant to the terms of this Agreement;

(ii) any failure to perform duly and punctually any covenant, agreement or undertaking on the part of Alkermes contained in this Agreement;

(iii) any act or omission of Alkermes with respect to the handling, manufacturing, sale, consumption or use of the Products by Alkermes; or

(iv) any infringement or violation of any third party patents, trademarks or other intellectual property resulting from the practice of the Licensed Assets or of the Technology or that relates to the manufacturing process used by Alkermes to manufacture Product under this Agreement.

(b) KU shall indemnify, defend and hold Alkermes (and its directors, officers, employees, and Affiliates) harmless from and against any and all Damages incurred or suffered by Alkermes (and its directors, officers, employees, and Affiliates) as a consequence of:

(i) any breach of any representation or warranty made by KU in this Agreement or any agreement, instrument or document delivered by KU pursuant to the terms of this Agreement;

(ii) any failure to perform duly and punctually any covenant, agreement or undertaking on the p art of KU contained in this Agreement; or

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(iii) any act or omission of K.U with respect to the handling, manufacturing, sale, consumption or use of the Products by KU.

9.2. Notice and Opportunity To Defend

. Promptly after receipt by a party hereto of notice of any claim which, could give rise to a right to indemnification pursuant to Section 9.1. such party (the "Indemnified Party") shall give the other party (the "Indemnifying Party") written notice describing the claim in reasonable detail. The failure of an Indemnified Party to give notice in the manner provided herein shall not relieve the Indemnifying Party of its obligations under this SECTION 9, except to the extent that such failure to give notice materially prejudices the Indemnifying Party's ability to defend such claim. The Indemnifying Party shall have the right, at its option, to compromise or defend, at its own expense and by its own counsel, any such matter involving the asserted liability of the party seeking such indemnification. If the Indemnifying Party shall undertake to compromise or defend any such asserted liability, it shall promptly (and in any event not less than ten (10) days after receipt of the Indemnified Party's original notice) notify the Indemnified Party in writing of its intention to do so, and the Indemnified Party agrees to cooperate fully with the Indemnifying Party and its counsel in the compromise or defense against any such asserted liability. All reasonable costs and expenses incurred in connection with such cooperation shall be borne by the Indemnifying Party. If the Indemnifying Party elects not to compromise or defend the asserted liability, fails to notify the Indemnified Party of its election to compromise or defend as herein provided, fails to admit its obligation to indemnify under this Agreement with respect to the claim, or, if in the reasonable opinion of the Indemnified Party, the claim could result in the Indemnified Party becoming subject to injunctive relief or relief other than the payment of money damages that could materially adversely affect the ongoing business of the Indemnified Party in any manner, the Indemnified Party shall have the right, at its option, to pay, compromise or defend such asserted liability by its own counsel and its reasonable costs and expenses shall be included as part of the indemnification obligation of the Indemnifying Party hereunder. Notwithstanding the foregoing, neither the Indemnifying Party nor the Indemnified Party may settle or compromise any claim over the objection of the other; provided, however, that consent to settlement or compromise shall not be unreasonably withheld. In any event, the Indemnified Party and the Indemnifying Party may participate, at their own expense, in the defense of such asserted liability. If the Indemnifying Party chooses to defend any claim, the Indemnified Party shall make available to the Indemnifying Party any books, records or other documents within its control that are necessary or appropriate for such defense. Notwithstanding anything to the contrary in this Section 9.2, (i) the party conducting the defense of a claim shall (A) keep the other party informed on a reasonable and timely basis as to the status of the defense of such claim (but only to the extent such other party is not participating jointly in the defense of such claim), and (B) conduct the defense of such claim in a prudent manner, and (ii) the Indemnifying Party shall not cease to defend, settle or otherwise dispose of any claim without the prior written consent of the Indemnified Party (which consent shall not be unreasonably withheld).

9.3. Indemnification Payment Obligation

. No Indemnifying Party will have any obligations under Sections 9.1(a) or 9.1(b) until the cumulative aggregate amount of Damages incurred or suffered by the Indemnified Party which the Indemnifying Party is otherwise subject to under this Agreement exceeds [***] at which time the entire cumulative aggregate amount of such Damages shall be covered. No Indemnifying Party will have any obligations under Sections 9.11(a) or 9.1(b) beyond [***]. The provisions of this Section 9.3 shall not limit or otherwise

affect the obligations of any Indemnifying Patty under any other Section of this Agreement.

9.4. Indemnification Payment Adjustment

. The amount of any Damages for which indemnification is provided under this <u>SECTION 9</u> shall be reduced to take account of any net tax benefit and shall be increased to take account of any net tax detriment arising from the incurrence or payment of any such Damages or from the receipt of any such indemnification payment and shall be reduced by the insurance proceeds received and any other amount recovered, if any, by the Indemnified Party with respect to any Damages; provided, however, that an Indemnified Party shall not be subject to an obligation to pursue an insurance claim relating to any Damages for which indemnification is sought hereunder. If any Indemnified Party shall have received any payment pursuant to this <u>SECTION 9</u> with respect to any Damages and shall subsequently have received insurance proceeds or other amounts with respect to such Damages, then such Indemnified Party shall pay to the Indemnifying Party an amount equal to the difference (if any) between (i) the sum of the amount of those insurance proceeds or other amount necessary to fully and completely indemnify and hold harmless such Indemnified Party from and against such Damages; provided, however, in no event will such Indemnified Party have any obligation pursuant to this <u>SECTION 9</u> with respect to such Damages.

9.5. Indemnification Payment

. Upon the final determination of liability and the amount of the indemnification payment under this <u>SECTION 9</u>, the appropriate party shall pay to the other, as the case may be, within [***], the amount of any claim for indemnification made hereunder,

9.6. Survival

. The provisions of <u>SECTION 9</u> shall survive any termination of this Agreement. Each Indemnified Party's rights under <u>SECTION 9</u> shall not be deemed to have been waived or otherwise affected by such Indemnified Party's waiver of the breach of any representation, warranty, agreement or covenant contained in or made pursuant this Agreement, unless such waiver expressly and in writing also waives any or all of the Indemnified Party's rights under <u>SECTION 9</u>.

9.7. Consequential Damages

. Notwithstanding anything to the contrary in this Agreement, neither Alkermes nor KU shall be liable to the other by reason of any representation or warranty, condition or other term or any other duty of common law for any consequential or incidental or punitive loss or damage, whether occasioned by the negligence of the respective parties, their employees or agents or otherwise; provided, however that the parties have explicitly agreed that direct damages shall not be subject to the foregoing limitation.

SECTION 10

TERMINATION

10.1. Termination

. The term of this Agreement shall begin upon the Effective Date and, unless sooner terminated as hereinafter provided, shall end upon the second anniversary of the Effective Date. This Agreement may be renewed for successive two (2)-year terms by mutual



agreement of the parties in writing. Notwithstanding the foregoing, this Agreement may be terminated as follows:

(a) Early Termination. Either party may terminate this Agreement at any time by providing six (6) months' prior written notice to the other party.

(b) Termination for Insolvency. If either KU or Alkermes (i) makes a general assignment for the benefit of creditors or becomes insolvent; (ii) files an insolvency petition in bankruptcy, (iii) petitions for or acquiesces in the appointment of any receiver, trustee or similar officer to liquidate or conserve its business or any substantial part of its assets; (iv) commences under the laws of any jurisdiction any proceeding involving its insolvency, bankruptcy, reorganization, adjustment of debt, dissolution, liquidation or any other similar proceeding for the release of financially distressed debtors; or (v) becomes a party to any proceeding or action of the type described above in (iii) or (iv) and such proceeding or action remains undismissed or unstayed for a period of more than 60 days, then the other party may by written notice terminate this Agreement in its entirety with immediate effect.

(c) Termination for Default.

(i) KU and Alkermes each shall have the right to terminate this Agreement for default upon the other's failure to comply in any material respect with the terms and conditions of this Agreement. At least thirty (30) days prior to any such termination for default, the party seeking to so terminate shall give the other written notice of its intention to terminate this Agreement in accordance with the provisions of this <u>Section 10.1(c)</u>, which notice shall set forth the default(s) which form the basis for such termination. If the defaulting party fails to correct such default(s) within thirty (30) days after receipt of notification, or if the same cannot reasonably be corrected or remedied within thirty (30) days, then if the defaulting party has not commenced curing said default(s) within said thirty (30) days and be diligently pursuing completion of same, then such party immediately may terminate this Agreement.

(ii) This <u>Section 10.1(c)</u> shall not be exclusive and shall not be in lieu of any other remedies available to a party hereto for any default hereunder on the part of the other party.

(d) <u>Continuing Obligations</u>. Termination of this Agreement for any reason shall not relieve the parties of any obligation accruing prior thereto with respect to the Products and any ongoing obligations hereunder with respect to the remaining Products and shall be without prejudice to the rights and remedies of either party with respect to any antecedent breach of the provisions of this Agreement. Without limiting the generality of the foregoing, no termination of this Agreement, whether by lapse of time or otherwise, shall serve to terminate the obligations of the parties hereto under <u>Sections 8.4</u>, <u>8.5</u>, <u>8.6</u>, <u>8.8</u>, <u>8.15</u>, <u>SECTION 9</u>, <u>Section 10.1(c)</u> and <u>SECTION 11</u> hereof, and such obligations shall survive any such termination.

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(e) <u>Net Sales Allowances after file Termination Date</u>. In reference to returns or other Net Sales allowances which arise after the termination of this Agreement in respect of any Product supplied and sold under this Agreement prior to such termination, the parties agree that KU shall not be entitled to seek any reimbursement, Net Sales deductions or other form of compensation from Alkermes.

SECTION 11

MISCELLANEOUS

11.1. Assignment and Subcontracting

(a) No party shall assign its rights or delegate its duties or obligations under this Agreement without the prior written consent of the other party hereto, except that (i) any party may assign its rights or delegate its duties under this Agreement to any of its Affiliates and (ii) KU agrees that it shall execute and deliver any documents as may reasonably be requested to consent to Alkermes' assignment of all of its rights and obligations arising from and under this Agreement to any company that may acquire the Alkermes's Gainesville, Georgia facility. Absent the prior written consent of the other party hereto, no affiliate assignment permitted under clause (i) of this Section 11.1 shall relieve the party making such assignment of its obligations hereunder. Any attempted assignment in contravention of this Section 11.1 shall be null and void.

(b) KU hereby acknowledges and agrees that Alkermes shall be entitled to subcontract its rights and obligations in this Agreement to its Affiliate, Alkermes Gainesville LLC, the legal entity which owns and operates the Gainesville Facility.

11.2. Notices

. All notices or other communications required or permitted to be given hereunder shall be in writing and shall be deemed to have been duly given if delivered by hand or facsimile and confirmed in writing, or mailed first class, postage prepaid, by registered or certified mail, return receipt requested (mailed notices and notices sent by facsimile shall be deemed to have been given on the date received) as follows:

If to Alkermes, as follows:

Alkermes Pharma Ireland Limited Connaught House, 1 Burlington Road Dublin 4 Ireland Telephone: +353 1 772 8000 Facsimile: +353 1 772 8001 Attention: Company Secretary

With a copy to:

VP, Alliance Management at the same address and contact details as set out above

If to KU, as follows:



Kremers Urban Pharmaceuticals Inc. 902 Carnegie Center, Suite 360 Princeton, NJ 08540 Facsimile: (609) 275-5352 Attention: Vice President, Sales & Marketing

or in any case to such other address or addresses as hereafter shall be furnished as provided in this Section 11.2 by any party hereto to the other party,

11.3. Waiver: Remedies

. Any term or provision of this Agreement may be waived at any time by the party entitled to the benefit thereof by a written instrument executed by such party. No delay on the part of Alkermes or KU in exercising any right, power or privilege hereunder shall operate as a waiver thereof, nor shall any waiver on the part of either Alkermes or KU of any right, power or privilege hereunder operate as a waiver of any other right, power or privilege hereunder nor shall any single or partial exercise of any right, power or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, power or privilege hereunder provided in <u>SECTION 9</u> shall be the sole remedy available for any Damages arising out of or in connection with this Agreement except for any rights or remedies which the parties hereto may otherwise have in equity.

11.4. Survival of Representations

. Each of the representations and warranties made in this Agreement shall continue for the term of this Agreement and shall thereafter be. extinguished.

11.5. Independent Contractors

. The parties hereto are independent contractors, and nothing contained in this Agreement shall be deemed to create the relationship of partners, joint venturers, or of principal and agent, franchisor and franchisee, or of any association or relationship between the parties other than as expressly provided in this Agreement. KU acknowledges that it does not have, and KU shall not make representations to any third party, either directly or indirectly, indicating that KU has, any authority to act for or on behalf of Alkermes or to obligate Alkermes in any way whatsoever. Alkermes acknowledges that it does not have, and it shall not make any representations to any third party, either directly or indirectly to act for or on behalf of KU or to obligate KU in any way whatsoever.

11.6. Entire Agreement

. This Agreement constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements or understandings of the parties relating thereto.

11.7. Amendment

. This Agreement may be modified or amended only by written agreement of the parties hereto.

11.8. Counterparts

. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute a single instrument.



11.9. Governing Law

. This Agreement shall be governed and construed in accordance with the laws of the State of New York excluding any choice of law rules which may direct the application of the law of another state.

11.10. Arbitration

. Any dispute, controversy or claim arising out of or in connection with this Agreement shall be determined and settled by arbitration in New York, New York, pursuant to the commercial arbitration rules then in effect of the American Arbitration Association. Any award rendered shall be final and conclusive upon the parties and a judgment thereon may be entered in a court having competent jurisdiction. Any arbitration hereunder shall be (i) submitted to an arbitration tribunal comprised of three (3) independent members knowledgeable in the pharmaceutical industry, one of whom shall be selected by KU, one of whom shall be selected by Alkermes, and one of whom shall be selected by the other two arbitrators; (ii) allow for the parties to request discovery pursuant to the rules then in effect under the Federal Rules of Civil Procedure for a period not to exceed ninety (90) days; and (iii) require the award to be accompanied by findings of fact and a statement of reasons for the decision. Each party shall bear its own costs and expenses, including attorney's fees incurred in any dispute which is determined and/or settled by arbitration pursuant to this <u>Section 11.10</u>. Except where clearly prevented by the area in dispute, both parties agree to continue performing their respective obligations under this Agreement while the dispute is being resolved. Arbitration shall not prevent any party from seeking injunctive relief where such remedy is an appropriate form of remedy under the circumstances.

11.11. Captions

. All section titles or captions contained in this Agreement, in any Schedule referred to herein or in any Exhibit annexed hereto, and the table of contents, if any, to this Agreement are for convenience only, shall not be deemed a part of this Agreement and shall not affect the meaning or interpretation of this Agreement.

11.12. No Third-Party Rights

. No provision of this Agreement shall be deemed or construed in any way to result in the creation of any rights or obligation in any Person not a party or not affiliated with a party to this Agreement.

11.13. Severability

. If any provision of this Agreement is found or declared to be invalid or unenforceable by any court or other competent authority having jurisdiction, such finding or declaration shall not invalidate any other provision hereof, and this Agreement shall thereafter continue in full force and effect.

11.14. Attachments

. All Schedules, Exhibits and other attachments to this Agreement are by this reference incorporated herein and made a part of this Agreement.

[Signature page follows]

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IN WITNESS WHEREOF, the parties have caused this Agreement to be duly executed and delivered on the day and year first above written.

ALKERMES PHARMA IRELAND LIMITED

By: <u>/s/ Shane Cooke</u> Name: Shane Cooke Title: Director

KREMERS URBAN PHARMACEUTICALS INC.

- By: <u>/s/ George Stevenson</u> Name: George Stevenson Title: President and CEO
- By: <u>/s/ Mary Ellen Campion</u> Name: Mary Ellen Campion Title: Vice President and CEO

[License and Supply Agreement]

> Schedule 2.1(a) to License and Supply Agreement

<u>NDAs</u>

[***]

[***]

Schedule 3.1 to License and Supply Agreement

Product Pricing and Payment Terms

1. <u>Defined Terms</u>. As used in this Schedule 3.1, the following terms shall have the respective meaning ascribed to them below.

"Actual NSP" for a particular Product and in respect of a particular Quarter, means the [***].

"<u>National NSP</u>" or "<u>NNSP</u>" for a particular Product and in respect of a particular Year, means KU's estimate of the Actual NSP for such Product for such Year, as determined pursuant to Section 2 of this Schedule 3.1.

"Supply Price" means Supply Price for Branded Product or Supply Price for Generic VPM Product, as the context requires.

"Supply Price for Branded Product" for a particular Branded Product and in respect of a particular Year, means [***].

"Supply Price for Generic VPM Product" for the Generic VPM Product shall [***].

- 2. Determination of Notional NSP and Cost.
 - (a) Not later than [***], KU shall notify Alkermes of its proposed National NSP for each of the Branded VPM Product and the Branded V Product for the next subsequent Year. Such proposed Notional NSPs shall be discussed in good faith by the Parties, and the Parties shall agree upon the final Notional NSP for each Branded Product for such next subsequent Year not later than [***]. For example, KU shall provide its proposed Notional NSP for each Branded Product to Alkermes by [***] and the Parties shall agree upon the Notional NSP for the Branded Products for 2015 not later than [***].
 - (b) Notwithstanding the foregoing, the Parties shall, by no later than [***], confer and agree upon the Notional NSP for 2014.
- 3. Branded VPM Product Terms.
 - (a) Subject to Section 3(c), below, each invoice submitted to KU upon delivery of an order of Branded VPM Product shall [***].
 - (b) Each Quarterly report delivered to Alkermes pursuant to Section 3.5 of the Agreement shall set forth the Actual NSP for all Branded VPM Product sold during the Quarter to which such report relates. Based upon such Actual NSP:
 - (i) [***].

- (ii) [***].
- (c) Anything to the contrary notwithstanding samples of Branded VPM Product shall be supplied to KU [***].
- (d) For the avoidance of doubt the parties agree that if for whatever reason the Branded VPM Product supplied by Alkermes to KU is not sold by KU, Alkermes shall retain the Supply Price paid for such Branded VPM Product (or if such Supply Price has not been paid, KU shall remain obligated to pay and shall pay such Supply Price to Alkermes).
- 4. Branded V Product Terms.
 - (a) Subject to Section 4(c), below, each invoice submitted to KU upon delivery of an order of Branded V Product shall reflect a price per unit equal to the then-current supply Price for the Branded V Product.
 - (b) Each Quarterly report delivered to Alkermes pursuant to Section 3.5 of the Agreement shall set forth the Actual NSP for all Branded V Product sold during the Quarter to which such report relates, Based upon such Actual NSP:
 - (i) [***].
 - (ii) [***].
 - (c) Anything to the contrary notwithstanding samples of Branded V Product shall be supplied to KU [***].
 - (d) For the avoidance of doubt, the parties agree that if for whatever reason the Branded V Product supplied by Alkermes is not sold by KU, Alkermes shall retain the Supply Price paid for such Branded V Product (or if such Supply Price has not been paid, KU shall remain obligated to pay and shall pay such Supply Price to Alkermes).
- 5. <u>Generic VPM Product Terms</u>.
 - (a) In every Quarter during which every Branded Product in all dosages strengths is sold by KU, KU shall pay Alkermes [***].
 - (b) In any Quarter where KU does not sell each dosage strength of each Branded Product, KU shall pay Alkermes [***].
 - (c) Notwithstanding anything to the contrary the amount payable to Alkermes during any Quarter pursuant to Clause 5(a) or (b) above shall [***].

Schedule 4.1 to License and Supply Agreement

Batch Sizes and Minimum Volumes

(a) Branded V Product

Subject to Section 4.1(c), the minimum order for Branded V Product shall be:

Strength	Order Quantity
[***]	[***] bottles per SKU, delivery dates need to coincide with
	Generic V Product.
[***]	[***] bottles per SKU, delivery dates need to coincide with
	Generic V Product.
[***]	[***] bottles per SKU, delivery dates need to coincide with
	Generic V Product.
[***]	[***] bottles per SKU, delivery dates need to coincide with
	Generic V Product.

(b) Branded and Generic VPM Product

If both the Branded VPM Product and the Generic VPM Product are ordered, then the minimum order shall be:

Strength	Order Quantity	
[***]	[***] bottles of Branded VPM Product, combined with [***] bottles of Generic VPM Product	
[***]	[***] bottles of Branded VPM Product, combined with [***] bottles of Generic VPM Product	
[***]	[***] bottles of Branded VPM Product, combined with [***] bottles of Generic VPM Product	

If only Branded VPM Product or Generic VPM Product is ordered, then the minimum order for whichever Product is ordered shall be:

Strength	Order Quantity		
[***]	[***] bottles of VPM Product or [***] bottles of Generic VPM Product		
[***]	[***] bottles of VPM Product or [***] bottles of Generic VPM Product		
[***]	[***] bottles of VPM Product or [***] bottles of Generic VPM Product		

> Schedule 6.4 to License and Supply Agreement

Intellectual Property

TRADEMARKS

VERELAN - U.S. Registration No.: 1,551,582

The Pre-Approved Forms in which this Trademark may be used by KU hereunder is as follows:

Verelan® Verelan® capsules Verelan® (verapamil hydrochloride capsules)

Exhibit 10.30

AMENDMENT NO. 1 TO LICENSE AND SUPPLY AGREEMENT

THIS AMENDMENT NO. 1 TO LICENSE AND SUPPLY AGREEMENT (this "<u>Amendment</u>") is made as of September 6, 2018 by and between Recro Gainesville LLC (as successor to Alkermes Pharma Ireland Limited) ("<u>Recro</u>"), and Kremers Urban Pharmaceuticals, Inc. ("<u>Kremers Urban</u>").

Background

WHEREAS, Recro and Kremers Urban are parties to that certain License and Supply Agreement, effective as of January 1, 2014 (the "<u>Agreement</u>").

WHEREAS, the parties now desire to enter into this Amendment to set forth certain changes to and modifications of the terms and conditions contained in the Agreement.

NOW, THEREFORE, in consideration of the mutual agreement of the parties contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged and agreed, and intending to be legally bound hereby, the parties agree as follows:

1. <u>Incorporation of Background; Capitalized Terms</u>. The "Background" provision set forth above, together with the defined terms therein, are incorporated herein by reference. Capitalized terms not otherwise defined herein shall have the meanings given to such terms in the Agreement.

2. <u>SECTION 1 DEFINITIONS</u>. The definition of "<u>Generic VPM Operating Profits</u>" is deleted in its entirety and replaced with the following language:

""Generic VPM Operating Profits" shall mean the [***].

3. <u>SECTION 10 TERMINATION</u>. Section 10.1 <u>Termination</u> is deleted in its entirety and replaced with the following language:

"10.1 <u>Termination</u>. The term of this Agreement shall begin upon the Effective Date and, unless sooner terminated as hereinafter provided, shall end on December 31, 2021. This Agreement may be renewed for successive two (2)-year terms by mutual agreement of the parties in writing. Notwithstanding the foregoing, this Agreement may be terminated as follows:

(a) <u>Early Termination</u>. At any time after March 31, 2019, either party may terminate this Agreement at any time by providing six (6) months' prior written notice to the other party if Net Sales for the trailing twelve (12) month period prior to delivery of such written notice are less than [***].

(b) <u>Termination for Insolvency</u>. If either Kremers Urban (or its parent company), or Recro (i) makes a general assignment for the benefit of creditors or becomes insolvent; (ii) files an insolvency petition in bankruptcy; (iii) petitions for or acquiesces in the appointment of any receiver, trustee or similar officer to liquidate or conserve its

business or any substantial part of its assets; (iv) commences under the laws of any jurisdiction any proceeding involving its insolvency, bankruptcy, reorganization, adjustment of debt, dissolution, liquidation or any other similar proceeding for the release of financially distressed debtors; or (v) becomes a party to any proceeding or action of the type described above in (iii) or

(iv) and such proceeding or action remains undismissed or unstayed for a period of more than 60 days, then the other party may by written notice terminate this Agreement in its entirety with immediate effect.

(c) <u>Termination for Default</u>.

(i) Kremers Urban and Recro each shall have the right to terminate this Agreement for default upon the other's failure to comply in any material respect with the terms and conditions of this Agreement. At least thirty (30) days prior to any such termination for default, the party seeking to so terminate shall give the other written notice of its intention to terminate this Agreement in accordance with the provisions of this <u>Section 10.1(c)</u>, which notice shall set forth the default(s) which form the basis for such termination. If the defaulting party fails to correct such default(s) within thirty (30) days after receipt of notification, or if the same cannot reasonably be corrected or remedied within thirty (30) days, then if the defaulting party has not commenced curing said default(s) within said thirty (30) days and be diligently pursuing completion of same, then such party immediately may terminate this Agreement.

(ii) This <u>Section 10.1(c)</u> shall not be exclusive and shall not be in lieu of any other remedies available to a party hereto for any default hereunder on the part of the other party.

(d) <u>Continuing Obligations</u>. Termination of this Agreement for any reason shall not relieve the parties of any obligation accruing prior thereto with respect to the Products and any ongoing obligations hereunder with respect to the remaining Products and shall be without prejudice to the rights and remedies of either party with respect to any antecedent breach of the provisions of this Agreement. Without limiting the generality of the foregoing, no termination of this Agreement, whether by lapse of time or otherwise, shall serve to terminate the obligations of the parties hereto under <u>Sections 8.4, 8.5, 8.6. 8.8, 8.15, SECTION 9, Section 10.1(c)</u> and <u>SECTION 11</u> hereof, and such obligations shall survive any such termination.

(e) <u>Net Sales Allowances after the Termination Date</u>. In reference to returns or other Net Sales allowances which arise after the termination of this Agreement in respect of any Product supplied and sold under this Agreement prior to such termination, the parties agree that Kremers Urban shall not be entitled to seek any reimbursement, Net Sales deductions or other form of compensation from Recro."

4. <u>SCHEDULE 3.1 GENERIC VPM PRODUCT TERMS</u>. Section 5(a) to Schedule 3.1 of the Agreement is deleted in its entirety and replaced with the following language:

"In every Quarter during which every Branded Product in all dosage strengths is sold by KU, KU shall pay Recro [***] of the Generic VPM Operating Profit for the Generic VPM Product for such Quarter."

5. <u>Inconsistencies; Disputes</u>. To the extent of any inconsistency between the Agreement and this Amendment, the terms and conditions of this Amendment shall prevail.

6. <u>No Other Amendments</u>. All provisions of the Agreement not expressly amended by this Amendment shall remain in full force and effect, and are ratified and confirmed.

7. <u>Counterparts</u>. This Amendment may be executed in counterparts, each of which shall be deemed an original and all of which, taken together, shall constitute one and the same instrument. An electronic or faxed signed copy of this Amendment shall have the same force and effect as an original signed copy.

[signature page follows]

IN WITNESS WHEREOF, Recro and Kremers Urban have duly executed this Amendment as of the date first written above.

RECRO GAINESVILLE LLC

By:

/s/ Scott Rizzo Scott Rizzo Nam: Title: Vice President and General Manager

KREMERS URBAN PHARMACEUTICALS, INC.

/s/ Ricardo Ortiz By: Ricardo Ortiz Nam: Title: Executive Vice President

LIST OF SUBSIDIARIES

Subsidiary	Ownership Percentage	Jurisdiction of Incorporation or Organization
Recro Gainesville LLC	100%	Massachusetts
Recro Gainesville Development LLC	100%	Delaware

Consent of Independent Registered Public Accounting Firm

The Board of Directors Recro Pharma, Inc.:

We consent to the incorporation by reference in the Registration Statements (Nos. 333-229737, 333-229736, 333-224870, 333-223437, 333-223436, 333-216581, 333-216579, 333-208750, 333-208749, 333-206309, and 333-194730) on Form S-8, (No. 333-229734) on Form S-3, and (No. 333-201841) on Form S-1 of Recro Pharma, Inc. of our reports dated March 4, 2020, with respect to the consolidated balance sheets of Recro Pharma, Inc. as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive loss, shareholders' equity, and cash flows for each of the years in the three-year period ended December 31, 2019, and the related notes, and the effectiveness of internal control over financial reporting as of December 31, 2019, which reports appear in the December 31, 2019 annual report on Form 10-K of Recro Pharma, Inc.

Our report on the consolidated financial statements refers to changes in accounting principle for revenue recognition and for leases due to the adoption of new accounting standards.

/s/ KPMG LLP

Philadelphia, Pennsylvania March 4, 2020

CERTIFICATION

I, Gerri A. Henwood, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of Recro Pharma, 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;
- 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 officers 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 reports (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 officers 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 function):
 - (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 4, 2020

/s/ Gerri A. Henwood

Gerri A. Henwood President and Chief Executive Officer (Principal Executive Officer)

CERTIFICATION

I, Ryan D. Lake, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of Recro Pharma, 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;
- 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 officers 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 officers 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 function):
 - (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 4, 2020

/s/ Ryan D. Lake

Ryan D. Lake Chief Financial Officer (Principal Finance and 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 of Recro Pharma, Inc. (the "Company") on Form 10-K for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers of the Company certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to such officer's knowledge:

- (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.

Date: March 4, 2020

/s/ Gerri A. Henwood

Gerri A. Henwood President and Chief Executive Officer (Principal Executive Officer)

/s/ Ryan D. Lake

Ryan D. Lake Chief Financial Officer (Principal Financial Officer)