EMISPHERE TECHNOLOGIES INC Form 10-K March 30, 2017 **Table of Contents**

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE **ACT OF 1934** For the fiscal year ended December 31, 2016

OR

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

For the transition period from

Commission file number 0-17758

EMISPHERE TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of

incorporation or organization) 4 Becker Farm Road, Suite 103

Roseland, NJ (Address of principal executive offices)

13-3306985 (I.R.S. Employer

Identification Number)

07068 (Zip Code)

(973) 532-8000

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(Registrant s telephone number, including area code)

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

None

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

Common Stock \$.01 par value

Preferred Stock Purchase Rights

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. Yes No

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that Registrant was required to file such reports) and (2) has been subject to such filing requirements for at least the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant s knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company (Do not check if a smaller reporting company)
Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

As of June 30, 2016 (the last business day of the registrant s most recently completed second quarter), the aggregate market value of the common stock held by non-affiliates of the Registrant (i.e. excluding shares held by executive officers, directors, and control persons) was \$28,630,594 computed at the closing price on that date.

The number of shares of the Registrant s common stock, \$.01 par value, outstanding as of March 1, 2017 was 60,687,478.

TABLE OF CONTENTS

		Page No.
<u>PART I</u>		1
Item 1.	Business	1
Item 1A.	Risk Factors	17
Item 1B.	Unresolved Staff Comments	25
Item 2.	<u>Properties</u>	25
Item 3.	Legal Proceedings	25
Item 4.	Mine Safety Disclosures	25
PART II		26
Item 5.	Market for Registrant s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity	
	<u>Securities</u>	26
Item 6.	Selected Financial Data	27
Item 7.	Management s Discussion and Analysis of Financial Condition and Results of Operations	27
Item 7A.	Quantitative and Qualitative Disclosures About Market Risk	41
Item 8.	Financial Statements and Supplementary Data	43
Item 9.	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	77
Item 9A.	Controls and Procedures	77
Item 9B.	Other Information	77
PART III		78
Item 10.	Directors, Executive Officers and Corporate Governance	78
Item 11.	Executive Compensation	83
Item 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	95
Item 13.	Certain Relationships, Related Transactions and Director Independence	99
Item 14.	Principal Accounting Fees and Services	101
PART IV		102
Item 15.	Exhibits and Financial Statement Schedules	102
Item 16.	Form 10-K Summary	102
	Signatures	103
	Exhibits Index	104

PART I

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K and the documents incorporated by reference herein contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and Section 21E of the Securities Exchange Act of 1934, as amended, that involve substantial risks and uncertainties. These forward-looking statements include, without limitation, statements regarding the sufficiency of our cash position; our ability to enter into strategic partnerships; our ability, and that of our partners, to develop, manufacture and commercialize products using our Eligen® technology; the success of our commercialization initiatives; planned or expected studies and trials of oral formulations that utilize our Eligen® Technology; the potential market size, advantages or therapeutic uses of our potential products and the sufficiency of our available capital resources to meet our funding needs. You should read this Annual Report on Form 10-K completely and with the understanding that our actual future results may be materially different from what we expect. We do not undertake any obligation to publicly update any forward-looking statement, whether as a result of new information, future events, or otherwise, except as required by law. Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results or achievements to be materially different from any future results or achievements expressed or implied by such forward-looking statements. Such factors include the factors described in Part 1, Item 1A. Risk Factors and the other factors discussed in connection with any forward-looking statements.

ITEM 1. *BUSINESS* Overview of Emisphere

Introduction and History

Emisphere Technologies, Inc. (Emisphere, the Company, our, us, or we) is a commercial stage pharmaceutical and drug delivery company. The partnership with global pharmaceutical companies to develop new oral formulations of existing injectable bio-pharmaceutical products, as well as new chemical entities, using our Eligen[®] Technology. We launched our first prescription medical food product, oral Eligen B12 in the U.S. in March 2015, and we are engaged in strategic business collaborations discussions to optimize its economic value in the U.S. and global markets. Beyond Eligen B12 , we utilize our proprietary Eligen[®] Technology to create new oral formulations of therapeutic agents. Our product pipeline includes prescription drug and medical food product candidates that are being developed in partnership or internally.

Our core business strategy is to build new, high-value partnerships and continue to expand upon existing partnerships, optimize Eligen B12 s economic value to shareholders, evaluate commercial opportunities for new prescription medical foods, and promote new uses for our Eligen [®] Technology, a broadly applicable proprietary oral drug delivery platform which makes it possible to avoid injections for drug administration. Our development efforts are conducted internally and in collaboration with corporate development partners. Typically, the drugs that we target are at an advanced stage of development, or have already received regulatory approval, and are currently available on the market. Our website is <u>www.emisphere.com</u>. The contents of this website are not incorporated herein by reference. Investor related questions should be directed to info@emisphere.com.

Emisphere was originally founded as Clinical Technologies Associates, Inc. in 1986 and is listed for trading on the Over-the-Counter Bulletin Board (the OTCBB), an electronic quotation service maintained by the Financial Industry Regulatory Authority, and is trading under the symbol EMIS (or EMIS.OB for certain stock quote publication websites).

The Eligen[®] Technology

The Eligen[®] Technology is a broadly applicable proprietary oral drug delivery technology based on the use of proprietary synthetic chemical compounds known as Eligen[®] delivery agents, or carriers. These carriers facilitate and enable the transport of therapeutic macromolecules (such as proteins, peptides, and polysaccharides) and poorly absorbed small molecules across biological membranes such as those of the

gastrointestinal tract. These molecules are typically delivered by injection, and in many cases their benefits are limited due to poor bioavailability, slow on-set of action or variable absorption. The Eligen[®] Technology facilitates absorption and may improve bioavailability. Moreover, it acts rapidly in the upper sections of the gastrointestinal tract where absorption is thought to occur. Using Eligen[®] Technology, most therapeutic macromolecules reach the general circulation in less than an hour post-dose, which can limit enzymatic degradation that typically affects macromolecules and may be advantageous in cases where time to onset of action is important (i.e. analgesics). The Eligen[®] technology is distinguished from competitive technologies in that absorption takes place through a transcellular pathway, as opposed to passing between cells, preserving the integrity of the tight junctions within the cell walls and reducing the likelihood of inflammatory processes and autoimmune gastrointestinal diseases. Furthermore, Eligen[®] Technology carriers are rapidly absorbed, distributed, metabolized and eliminated from the body, and they do not accumulate in the organs and tissues and are considered safe at anticipated doses and dosing regimens. Drugs or nutritional supplements whose bioavailability is limited by poor membrane permeability or chemical or biological degradation, and which have a moderate-to-wide therapeutic index, appear to be the best candidates for use with the Eligen[®] Technology. Drugs with a narrow therapeutic window or high molecular weight may not work favorably with the technology. The Eligen[®] Technology can be applied to the oral route of administration as well as other delivery pathways, such as buccal, rectal, inhalation, intra-vaginal or transdermal. Implementing the Eligen[®] Technology requires co-formulating a drug or nutritional supplement and an Eligen[®] carrier to produce an effective formulation. The carrier does not alter the chemical properties of the drug nor its biolog

Results from two clinical studies published by F. Hoffmann-La Roche Ltd illustrate important safety characteristics of Emisphere s Eligen Technology. These studies were performed with a novel oral formulation of ibandronate (a drug used to prevent and treat osteoporosis) with Emisphere s SNAC carrier, an Eligen Technology compound. The first study (J Drug Del Technol 2011; 21: 521-5) showed that the SNAC carrier must be co-formulated, and not simply co-dosed, with ibandronate in order to increase ibandronate bioavailability. The second study (Arnzelmittelforschung 2011; 61:707-13) demonstrated that co-dosing of a SNAC/ibandronate formulation with metformin, a drug widely used in Type 2 Diabetes patients, did not influence the absorption of metformin. Together, these studies support the hypothesis that Eligen® Technology facilitates oral absorption only when co-formulated with the intended active ingredient, and that co-dosing with other ingredients should not result in accidental or incidental absorption of unintended ingredients.

Another important safety characteristic of the Eligen[®] Technology was demonstrated by the results of three clinical safety studies conducted by Novartis International AG with the former osteoporosis and osteoarthritis treatment candidate SMC021. SMC021 used Emisphere s permeation enhancer 5-CNAC, an Eligen[®] Technology compound, in combination with salmon calcitonin (SCT). These studies addressed the potential for SMC021 drug interaction with several widely used drugs and found, in each case, no evidence to indicate a safety concern for drug interaction. Scientific posters describing the results of these clinical studies were presented at the annual meeting of the American Society of Clinical Pharmacology and Therapeutics on March 17, 2012. The first study (*The effect of esomeprazole on the pharmacokinetics and pharmacodynamics of SMC021 in healthy volunteers*. Choi L et al.) concluded that pre-treatment with a proton pump inhibitor, esomeprazole, decreased SCT exposure by approximately 30% without impacting the pharmacodynamic response to SCT. The second study (*Pharmacokinetic interaction assessment between SMC021 and between SMC021 and acetaminophen*. Choi L et al.) concluded that ibuprofen and acetaminophen did not significantly alter the pharmacokinetics of SMC021 when used jointly with either of these analgesics. The third study (*Pharmacokinetic interaction assessment between SMC021 and rosiglitazone*, a Type II diabetes drug metabolized by CYP2C8, were administered together at expected clinical doses. Together, these studies support the hypothesis that Eligen[®] Technology does not pose a safety risk for drug interaction.

In May 2009, our Eligen[®] carrier, monosodium N-[8-(2-hydroxybenzoyl) amino] caprylate (SNAC), following a comprehensive evaluation of research and toxicology data, SNAC was found to be safe at a dosage up to 250 mg per day when used in combination with nutrients to improve their dietary availability. In July 2009, concurrent with the publication of two papers in the July/August issue of the peer reviewed journal, *International Journal of Toxicology*, which describes the toxicology of SNAC, SNAC received GRAS status for its intended

2

use in combination with nutrients added to food and dietary supplements. Since SNAC achieved GRAS status, it is exempt from pre-market approval for its intended use in combination with nutrients added to food and dietary supplements. Our partner, Novo Nordisk, is using SNAC in combination with its proprietary GLP-1 analog, semaglutide, in Phase 3 testing of an oral formulation. In connection with the development of its oral semaglutide product, Novo Nordisk has successfully concluded extensive safety testing on the SNAC molecule, alone and in combination with semaglutide.

Based on extensive study by our partners and our scientists, senior management and expert consultants, we believe that our technology can enhance overall healthcare, including patient accessibility and compliance, while benefiting the commercial pharmaceutical marketplace and driving company valuation. The application of the Eligen[®] Technology is potentially broad and may provide for a number of opportunities across a spectrum of therapeutic modalities.

Emisphere Today

Mr. Alan L. Rubino, the Company s President and Chief Executive Officer, and Mr. Timothy G. Rothwell, its Chairman of the Board of Directors, are seasoned industry executives with major and emerging pharmaceutical company experience who form the core of a leadership team that will implement the Company s strategic plans. To that end, we have sought to expand opportunities with existing partners and will continue to work to expand and explore product development, and licensing partnerships

We conducted a limited pilot launch of oral Eligen B12 as an Rx medical food therapeutic in March 2015 to positive physician and patient reception. From the start, we have continuously evaluated the product s sales performance and uptake in light of our current commercial and financial resources as well as the changing CMS guidelines for medical food products and the reimbursement environment. As a result, we determined that a strategic transaction or collaboration with a third party that possesses the requisite marketing power and resources would be necessary for the product to reach its full market potential in the United States and internationally. Simultaneously, during the fourth quarter 2015, we were approached by several major pharmaceutical and consumer healthcare companies expressing interest in licensing or acquiring our now on-the-market Eligen B12 product. As a result, we have concluded that we should evaluate strategic transactions and collaborations with these potential suitors in order to optimize shareholder value. These developments have also led to our decision to phase-out our small contract field force and re-prioritize our marketing resources towards more efficient non-field force maintenance promotion. Our core business strategy remains to continue building new, high-value partnerships and expand upon existing partnerships, optimize Eligen B12 s economic value, evaluate commercial opportunities for new products, and promote new uses for our Eligen[®] Technology.

Product Pipeline

GLP-1

Our most advanced collaborative partner, Novo Nordisk, is using our Eligen[®] Technology in combination with semaglutide, one of its proprietary GLP-1 receptor agonists, and its insulins. During 2015, Novo Nordisk initiated a global Phase 3a development program with oral semaglutide, a once daily oral formulation of the long-acting GLP-1 analog for the treatment of Type 2 diabetes, using our absorption-enhancing carrier, monosodium N-[8-(2-hydroxybenzoyl) amino] caprylate (our SNAC carrier). Novo Nordisk initiated ten clinical trials containing approximately 9,300 patients with Type-2 diabetes in its global Phase 3a program. Novo Nordisk s decision to initiate this global phase 3a program follows encouraging results from the proof of concept Phase 2 program and consultations with regulatory authorities. In February 2016, Novo Nordisk initiated the first Phase 3a trial or oral semaglutide, combined with our SNAC carrier. Novo Nordisk has now initiated all 10 clinical trials, including PIONEER 6 (a pre-approval long term cardiovascular outcomes trial in approximately 3,100 subjects), PIONEER 8 (an insulin add-on trial in approximately 700 subjects), PIONEER 9 (a monotherapy trial in approximately 200 subjects) and PIONEER 10 (an oral anti-diabetic combination trial in approximately 300 subjects). The advancement of oral semaglutide into Phase 3a development represents a significant milestone for our Eligen[®] Technology platform and supports our belief that products developed using our carriers have the potential to overcome bioavailability challenges commonly associated with the oral administration of peptides and certain other compounds.

Under the GLP-1 License Agreement, Emisphere could receive additional contingent product development and sales milestone payments and would also be entitled to receive royalties in the event Novo Nordisk commercializes products developed under such Agreement. Under the GLP-1 License Agreement, Novo Nordisk is responsible for the development and commercialization of the products.

On October 14, 2015, we also entered into a new Development and License Agreement with Novo Nordisk (the Expansion License Agreement) to develop and commercialize oral formulations of four classes of Novo Nordisk s investigational molecules targeting major metabolic disorders, including diabetes and obesity, using our oral Eligen[®] Technology. Under the terms of the Expansion License Agreement, we licensed to Novo Nordisk the exclusive right to develop potential product candidates in three molecule classes, and the non-exclusive right to develop potential product candidates in a fourth molecule class, using the Eligen[®] Technology.

We have also collaborated with Novartis in connection with the development and testing of oral formulations of several drug candidates. Novartis has the right to evaluate the feasibility of using Emisphere s Eligen carriers with two new compounds to assess the potential for new product development opportunities. Novartis is considering its options accordingly. If Novartis chooses to develop oral formulations of these new compounds using Eligen[®] carriers, the parties will negotiate additional agreements. Development-stage product candidates incorporating our Eligen[®] technology are in earlier or preclinical research phases, and we continue to assess them for their compatibility with our technology and market need. Our intent is to seek partnerships with pharmaceutical and biotechnology companies for certain of these products as we continue to expand our pipeline with product candidates that demonstrate significant opportunities for growth. Our focus is on molecules that meet the criteria for success based on our increased understanding of our Eligen[®] Technology and prescription medical foods. Our preclinical programs focus on the development of oral formulations of potentially new treatments for diabetes and products in the areas of cardiovascular, appetite suppression and pain and on the development and potential expansion of nutritional supplement products.

We will continue to concentrate on expanding our Eligen[®] drug delivery technology business by seeking applications with prescription molecules obtained through partnerships with other pharmaceutical companies for molecules where oral absorption is difficult yet substantially beneficial if proven. We are also working to generate new interest in the Eligen [®] Technology with potential partners and attempting to expand our current collaborative relationships to take advantage of the critical knowledge that others have gained by working with our technology. Finally, we continue to pursue the development of product candidates developed internally. We believe that these internal candidates need to be developed with reasonable investment in an acceptable time period and with a reasonable risk-benefit profile.

We recognize, however, that further development, exploration and commercialization of our technology entails substantial risk and requires significant operational expenditures. We continue to refocus our efforts on strategic development initiatives to reduce non-strategic spending aggressively, and seek to obtain the funding necessary to implement our new corporate strategy. There can be no assurances, however, that the Company will be able to secure adequate funding to meet its current obligations and successfully pursue its strategic direction. Furthermore, despite our optimism regarding the Eligen[®] Technology and the commercialization of oral Eligen B12 Rx, even in the event that the Company is adequately funded, there is no guarantee that any of our products or product candidates will perform as hoped or that such products can be successfully commercialized. For further discussion, see Part II, Item 1A **Risk Factors.**

Oral Eligen B12 Rx

We are evaluating potential strategic transactions and collaborations with third parties for oral Eligen B12 Rx, which we launched in the U.S. in March 2015. Oral Eligen B12 Rx is the first and only once-daily oral prescription medical food tablet shown to normalize B12 levels without the need for an injection. Medical foods are a distinct product category defined by the Orphan Drug Act of 1988 and an FDA regulation, and encompass foods which are formulated to be consumed or administered enterally under the supervision of a physician and which are intended for the specific dietary management of a disease or condition for which distinctive nutritional requirements, based on recognized scientific principles, are established by medical evaluation. Eligen B12 meets significant unmet patient and medical needs by combining vitamin B12 with our Eligen[®] technology. Eligen B12 Rx is indicated for the dietary management of patients who have a medically-diagnosed vitamin

B12 deficiency, associated with a disease or condition that cannot be managed by a modification of the normal diet alone. Eligen B12 is the first prescription product to market using an Eligen[®] carrier, SNAC, to chaperone B12 through the gastric lining and directly into the bloodstream independent of intrinsic factor, a protein made in the stomach that normally facilitates B12 absorption.

During the fourth quarter of 2010, we completed a clinical trial which demonstrated that both oral Eligen B12 Rx (1000 mcg) and injectable B12 (current standard of care) can efficiently and quickly restore normal Vitamin B12 levels in deficient individuals. The manuscript summarizing the results from that clinical trial was published in the July 2011 edition of the journal *Clinical Therapeutics* (Volume 22, pages 934 945). We also conducted market research to help assess the potential commercial opportunity for our oral Eligen B12 Rx (1000 mcg) product.

Vitamin B12 is an important nutrient that is poorly absorbed in the oral form. In most healthy people, Vitamin B12 is absorbed in a receptor-mediated pathway in the presence of an intrinsic factor. A large number of people take oral B12 supplements, many in mega-doses, and by injection. Currently, it is estimated that at least five million people in the U.S. are taking 40 million injections of Vitamin B12 per year to treat a variety of debilitating medical conditions. Another estimated five million people are consuming more than 600 million tablets of Vitamin B12 orally. The international market is larger than the U.S. market. Many B12 deficient patients suffer from pernicious anemia and neurological disorders and many of them are infirm or elderly. Vitamin B12 deficiency can cause severe and irreversible damage, especially to the brain and nervous system. At levels only slightly lower than normal, a variety of symptoms such as fatigue, depression, and poor memory may occur.

The data from our first pharmacokinetic study of our new Vitamin B12 formulation showed mean Vitamin B12 peak blood levels were more than 10 times higher for the Eligen B12 Rx 5mg formulation than for the 5mg commercial formulation. The mean time to reach peak concentration (T max) was reduced by over 90%, to 0.5 hours for the Eligen B12 Rx 5mg from 6.8 hours for the commercial 5mg product. Improvement in bioavailability, the fraction of an administered dose of unchanged drug that reaches systemic circulation, was approximately 240%, with absorption time at 30 minutes and a mean bioavailability of 5%. The study was conducted with a single administration of Eligen[®] B12. There were no adverse reactions, and Eligen B12 Rx was well-tolerated.

On August 5, 2011, we received notice from the United States Patent Office that the U.S. patent application directed to the Eligen B12 formulation was allowed. This new patent (US 8,022,048) provides intellectual property protection for Eligen B12 \ through approximately October 2029.

Novo Nordisk Partnership

Novo Nordisk s Phase III Programs

Novo Nordisk has recently begun Phase III clinical development of its GLP-1 analog, oral-semaglutide, for the treatment of Type-2 diabetes. Novo Nordisk s oral semaglutide is a product candidate which uses Emisphere s SNAC carrier to facilitate absorption. GLP-1 is a natural hormone involved in controlling blood sugar levels. It stimulates the release of insulin only when blood sugar levels become too high. GLP-1 secretion is often impaired in people with Type 2 diabetes. Emisphere had previously conducted extensive tests on native insulin and native GLP-1which demonstrated that both macromolecules can be effectively delivered using the Eligen[®] Technology. With the progress that has been made in the development of second generation proteins, we concluded that a more productive pathway is to move forward with GLP-1 analogs, an oral form of which might be used to treat Type 2 diabetes and related conditions. Our research indicated that the development of oral formulations of Novo Nordisk proprietary GLP-1 receptor agonists may represent an opportunity for Emisphere. Consequently, on June 21, 2008, we entered into an exclusive Development and License Agreement with Novo Nordisk focused on the development of oral formulations of Novo Nordisk s proprietary GLP-1 receptor agonists (the GLP-1 License Agreement). Emisphere has received approximately \$32.6 million as of December 31, 2016, under the GLP-1 License Agreement, and could receive up to an additional \$60 million in contingent product development and sales milestone payments, as well as receive royalties on sales in the event Novo Nordisk commercializes products developed under the GLP-1 License Agreement. Under the terms of the

agreement, Novo Nordisk is responsible for the development and commercialization of the products. On February 20, 2015, following the successful completion of its Phase 2 trials, Novo Nordisk highlighted positive Phase 2 data pertaining to OG217SC, the oral formulation of semaglutide, a long-acting human GLP-1 analogue that stimulates insulin and suppresses glucagon secretion in a glucose-dependent manner. OG217SC is provided in a tablet formulation with Emisphere s absorption-enhancing excipient, SNAC. Novo Nordisk announced that it has successfully completed the phase 2 trial for OG217SC, investigating dose range, escalation, efficacy and safety of once-daily oral semaglutide compared with oral placebo or once-weekly subcutaneously administered semaglutide in around 600 people with type 2 diabetes treated for 26 weeks.

On August 26, 2015, Novo Nordisk announced that it will initiate a global Phase 3a development program with oral semaglutide, and SNAC and in February 2016, Novo Nordisk initiated the first Phase 3a trial of oral semaglutide, an oral formulation of Novo Nordisk s long-acting GLP-1 analogue semaglutide using Emisphere Eligen[®] Technology. Novo Nordisk has now initiated all clinical trials, including PIONEER 6 (a pre-approval long-term cardiovascular outcomes trial in approximately 3,100 people), PIONEER 8 (an insulin add-on trial in approximately 700 people), PIONEER 9 (a monotherapy trial I napproximately 200 Japanese people) and PIONEER 10 (an oral anti-diabetic combination trial in approximately 300 Japanese people). Novo Nordisk s decision to initiate this global phase 3a program follows encouraging results from the proof of concept Phase 2 program and consultations with regulatory authorities. The advancement of oral semaglutide into Phase 3a development represents a significant milestone for our Eligen[®] Technology platform and supports our belief that products developed using our carriers have the potential to overcome bioavailability challenges commonly associated with the oral administration of peptides and certain other compounds.

On October 14, 2015, we amended the GLP-1 License Agreement for a third time to provide for, among other things, a payment of \$9.0 million to us from Novo Nordisk as prepayment of a product development milestone and in exchange for a reduction in certain future royalty payments. On April 26, 2013, we amended the GLP-1 License Agreement for a second time to provide for, among other things, for a payment of \$10 million from Novo Nordisk to the Company as a prepayment for the achievement of certain development milestones that would have otherwise become payable to the Company under the Development Agreement in exchange for a reduction in the rate of potential future royalty payments as provided in the Development Agreement.

Preclinical Programs

On October 14, 2015, we entered into a new Development and License Agreement with Novo Nordisk (the Expansion License Agreement) to develop and commercialize oral formulations of four classes of Novo Nordisk s investigational molecules targeting major metabolic disorders, including diabetes and obesity, using our oral Eligen[®] Technology. Under the terms of the Expansion License Agreement, we licensed to Novo Nordisk the exclusive right to develop potential product candidates in three molecule classes, and the non-exclusive right to develop potential product candidates in a fourth molecule class, using the Eligen® Technology. Pursuant to the Expansion License Agreement, we received a \$5.0 million upfront licensing fee, and are eligible to receive up to \$62.5 million in development and sales milestone payments for each of the three exclusively licensed molecule classes, and up to \$20 million in development milestone payments for the non-exclusively licensed molecule class. Additionally, we are eligible to receive royalties on sales of each successfully commercialized product. Novo Nordisk is solely responsible for the development and commercialization of all product candidates. In addition, Emisphere granted Novo Nordisk the option to obtain exclusive and non-exclusive rights to develop and commercialize oral formulations of additional investigational molecules for the treatment of diabetes, obesity, and indications in other important therapeutic areas using the Eligen® Technology. If Novo Nordisk exercises its option to develop and commercialize any additional investigational molecules, we would be entitled to receive an additional payment upon the exercise of each option for exclusive or non-exclusive development rights for each molecule class. We are eligible to receive up to \$62.5 million in development and sales milestone payments for each additional exclusively licensed molecule class, and up to \$20 million in development milestone payments for each additional non-exclusively licensed molecule class, plus royalties on sales of each commercialized product. The Expansion License Agreement remains in effect, on a country-by-country basis, for the longer of 10 years from the date of first sale of a licensed product in such country, or the date of expiration of the last-to-expire patent covered by the Expansion License Agreement in



such country. Novo Nordisk may terminate the Expansion License Agreement with 90 days prior notice. We may terminate the Expansion License Agreement in the event that Novo Nordisk challenges the validity of any licensed patent under the agreement, but only with respect to the patents belonging to the patent family of the challenged patent. Either party may also terminate the Expansion License Agreement upon the other party s material breach, if not cured within a specified period of time. Upon a termination of the Expansion License Agreement by Emisphere for Novo Nordisk s breach, all intellectual property rights conveyed under the Expansion License Agreement shall revert back to us.

Our other product candidates in development are in earlier or preclinical research phases, and we continue to assess them for their compatibility with our technology and market need. Some of these pre-clinical projects are partnered and others were initiated and are being pursued internally by the Company. Our intent is to seek partnerships with pharmaceutical and biotechnology companies for certain of these products as we continue to expand the use of our Eligen[®] Technology with product candidates that demonstrate significant opportunities for growth. Our preclinical programs focus on the development of oral formulations of potentially new treatments for diabetes and products in the areas of cardiovascular, appetite suppression and pain and on the development and potential expansion of nutritional supplement products.

Business Financing

Since our inception in 1986, we have generated significant losses from operations and we anticipate that we will continue to generate significant losses from operations for the foreseeable future. We have limited capital resources and operations to date have been funded with the proceeds from collaborative research agreements, public and private equity and debt financings and income earned on investments.

As of December 31, 2016, our accumulated deficit was approximately \$564.6 million. Our loss from operations was \$7.8 million, \$18.1 million and \$9.3 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net loss was \$10.0 million, \$40.4 million and \$25.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net cash outlays from operations were \$6.8 million, \$2.8 million and \$8.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our stockholders deficit was \$161.4 million and \$151.9 million as of December 31, 2016 and 2015, respectively. On December 31, 2016 we had approximately \$6.1 million of cash.

As of December 31, 2016, our obligations included approximately \$53.0 million (face value) under our Second Amended and Restated Convertible Promissory Notes (the Convertible Notes), approximately \$26.0 million (face value) under a loan agreement entered into on August 20, 2014 (the Loan Agreement), approximately \$0.8 million (face value) under our Second Amended and Restated Reimbursement Notes (the Reimbursement Notes), and approximately \$2.4 million (face value) under our Second Amended and Restated Bridge Notes (the Bridge Notes).

On October 26, 2015, we received a total payment of \$14 million from Novo Nordisk pursuant to, and consisting of, \$5 million as payment for entry into the Expansion License Agreement and \$9 million as payment in connection with the third amendment to the GLP-1 License Agreement.

Under terms of its loan agreements, the Company was obligated to pre-pay certain loans and notes using 50% of any extraordinary receipts, such as the \$14 million received from Novo Nordisk. On December 8, 2016, we entered into various agreements whereby, among other things, the creditors under our Loan Agreement and Convertible Notes agreed to waive any event of default resulting from our failure to satisfy specified net sales milestones for Eligen B12 for the 2016 fiscal year and for all future periods specified in the Loan Agreement and Convertible Notes. The creditor also agreed to irrecovably waive the Company s obligation to pre-pay \$7 million of certain loans and notes resulting from the \$14 million cash receipt from Novo Nordisk.

Management has concluded that due to the conditions described above, there is substantial doubt about the entity s ability to continue as a going concern through March 30, 2018. We have evaluated the significance of the conditions in relation to our ability to meet our obligations and believe that our current cash balance will provide sufficient capital to continue operations through approximately March 2018. While our plan is to raise capital from commercial operations and/or product partnering opportunities to address our capital deficiencies and meet

our operating cash requirements, there is no assurance that our plans will be successful. If we fail to generate sufficient capital from commercial operations or partnerships, we will need to seek capital from other sources and risk default under the terms of our existing loans. We cannot assure you that financing will be available on favorable terms or at all. Furthermore, despite our optimism regarding the Eligen [®] Technology, even in the event that the Company is adequately funded, there is no guarantee that any of our products or product candidates will perform as hoped or that such products can be successfully commercialized. For further discussion, see Part I, Item 1A Risk Factors.

Overview of the Drug Delivery Industry

The drug delivery industry develops technologies for the improved administration of therapeutic molecules with the goal of expanding markets for existing products and extending drug franchises. Drug delivery companies also seek to develop products on their own that would be patent-protected by applying proprietary technologies to off-patent pharmaceutical products. Primarily, drug delivery technologies are focused on improving safety, efficacy, ease of patient use and/or patient compliance. Pharmaceutical and biotechnology companies consider improved drug delivery as a means of gaining competitive advantage over their peers.

Therapeutic macromolecules, of which proteins are the largest sub-class, are prime targets for the drug delivery industry for a number of reasons. Most therapeutic macromolecules must currently be administered by injection (most common) or other device such as an inhaler or nasal spray system. Many of these compounds address large markets for which there is an established medical need. These drugs are widely used, as physicians are familiar with them and accustomed to prescribing them. However, therapeutic macromolecules could be significantly enhanced through alternative delivery. These medicines are comprised of proteins and other large or highly charged molecules (carbohydrates, peptides, ribonucleic acids) that, if orally administered using traditional oral delivery methods, would degrade in the stomach or intestine before they are absorbed into the bloodstream. Also, these molecules are typically not absorbed following oral administration due to their poor permeability. Therefore, the vast majority are administered parenterally (other than orally or rectally). However, for many reasons, parenteral administration is undesirable, including patient discomfort, inconvenience and risk of infection. Poor patient acceptance of parenteral therapies can lead to medical complications. In addition, parenteral therapies can often require incremental costs associated with administration in hospitals or doctors offices.

Previously published research indicates that patient acceptance of and adherence to a dosing regimen is higher for orally delivered medications than it is for non-orally delivered medications. Our business strategy is partly based upon our belief that the development of an efficient and safe oral delivery system for therapeutic macromolecules represents a significant commercial opportunity. We believe that more patients will take orally delivered drugs more often, spurring market expansion.

Leading Current Approaches to Drug Delivery

Transdermal (via the skin) and Needleless Injection

The size of most macromolecules makes penetration into or through the skin inefficient or ineffective. Some peptides and proteins can be transported across the skin barrier into the bloodstream using high-pressure needleless injection devices. Needleless devices, which inject proteins through the skin into the body, have been in development for many years. We believe these devices have not been well accepted due to patient discomfort, relatively high cost, and the inconvenience of placing the drugs into the device.

Nasal (via the nose)

The nasal route (through the membranes of the nasal passage) of drug administration has been limited by low and variable bioavailability for proteins and peptides. As a result, penetration enhancers often are used with nasal delivery to increase bioavailability. These enhancers may cause local irritation to the nasal tissue and may result in safety concerns with long-term use. A limited number of peptides delivered nasally have been approved for marketing in the U.S., including MIACALCIN[®], developed by Novartis as an osteoporosis therapy, a therapeutic area we have targeted.

Pulmonary (via the lung)

Pulmonary delivery (through the membranes of the lungs) of drugs is emerging as a delivery route for large molecules. Although local delivery of respiratory drugs to the lungs is common, the systemic delivery (i.e., delivery of the drugs to the peripheral vasculature) of macromolecular drugs is less common because it requires new formulations and delivery technologies to achieve efficient, safe and reproducible dosing. Only one protein using pulmonary delivery has been approved for marketing in the U.S., which is EXUBERA[®], an insulin product developed by Pfizer and Nektar, as a diabetes therapy, a therapeutic area we have targeted. However, after market acceptance of EXUBERA[®] was demonstrated to be limited, Pfizer withdrew from further commercialization of, and terminated its license with Nektar for, EXUBERA[®].

Intraoral (via the membranes in the mouth)

Intraoral delivery is also emerging as a delivery route for large molecules. Buccal delivery (through the membrane of the cheek) and sublingual delivery (through the membrane under the tongue) are forms of intraoral delivery. Some Vitamin B12 manufacturers sell and distribute sublingual versions of their product.

Oral (via the mouth)

We believe that the oral method of administration is the most patient-friendly option, in that it offers convenience, is a familiar method of administration that enables increased compliance and, for some therapies, may be considered the most physiologically appropriate. We, and other drug delivery and pharmaceutical companies, have developed or are developing technologies for oral delivery of drugs. We believe that our Eligen[®] Technology provides an important competitive advantage in the oral route of administration because it does not alter the chemical composition of the therapeutic macromolecules. We have conducted over 140,000 human dosings and have witnessed no serious adverse events that can be attributed to the EMISPHERE[®] delivery agents dosed or the mechanism of action of the Eligen[®] Technology.

In general, we believe that oral administration will be preferred to other methods of administration. However, such preference may be offset by possible negative attributes of orally administered drugs such as the quantity or frequency of the dosage, the physical size of the capsule or tablet being swallowed or the taste. For example, in our previous Phase III trial with heparin as an oral liquid formulation, patient compliance was hindered by patients distaste for the liquid being administered. In addition, patients and the marketplace will more likely respond favorably to improvements in absorption, efficacy, safety, or other attributes of therapeutic molecules. It is possible that greater convenience alone may not lead to success.

Collaborative and Commercial Agreements

We are a party to certain collaborative and commercial agreements with corporate partners to provide development and commercialization services relating to our products and technology. Our collaborative agreements are in the form of research and development collaborations and licensing agreements. Under these agreements, we have granted licenses or the rights to obtain licenses to our oral drug delivery technology. In return, we are entitled to receive certain payments upon the achievement of milestones and royalties on the sales of the products should a product ultimately be commercialized. We also are entitled to be reimbursed for certain research and development costs that we incur.

All of our collaborative agreements are subject to termination by our corporate partners, without significant financial penalty to them. Under the terms of these agreements, upon a termination we are entitled to reacquire all rights in our technology at no cost and are free to re-license the technology to other collaborative partners.

inVentiv

Contract Sales Force

During October 2013, we entered into a Master Services Agreement with inVentiv Health Inc. (the inVentiv MSA), which was subsequently terminated in March 2016. inVentiv MSA provided a contract sales force that promoted Eligen B12 and related services. Under the inVentiv MSA we paid fixed monthly fee for services of a general manager, and monthly payments based on the number of individuals comprising the sales

force, fixed fees for the maintenance of the sales force, and performance based fees based on the achievement by the sales force of predefined metrics.

Novo Nordisk A/S

GLP-1 Receptor Agonists Agreement

During June 2008, we entered into the GLP-1 License Agreement with Novo Nordisk, pursuant to which Novo Nordisk will develop and commercialize oral formulations of its proprietary GLP-1 receptor agonists in combination with Emisphere carriers. Under the GLP-1 License Agreement, we may receive more than \$87 million in contingent product development and sales milestone payments, including a \$10 million non-refundable license fee which was received in June 2008. To date, we have received a total of \$32.6 million under the terms of this agreement. Emisphere would also be entitled to receive additional development and sales milestone payments and royalties on sales in the event Novo Nordisk commercializes products developed under such Agreement. Under the GLP-1 License Agreement, Novo Nordisk is responsible for the development and commercialization of the products. See Phase III Program above for a description of development activity conducted in connection with the GLP-1 License Agreement, and certain payments made to Emisphere as a result thereof. The agreement remains in effect, on a country-by-country basis, for the longer of 10 years from the date of first sale of a licensed product in such country, or the date of expiration of the last-to-expire patent covered by the agreement in such country, after which time Novo Nordisk will have a fully paid, exclusive license to the licensed product. Novo Nordisk may terminate this agreement with 90 days prior notice. We may terminate this agreement in the event that Novo Nordisk challenges the validity of any licensed patent under the agreement, but only with respect to the patents belonging to the patent family of the challenged patent. Either party may also terminate the agreement upon the other party s material breach, if not cured within a specified period of time. Upon a termination of the agreement by Emisphere for Novo Nordisk s breach, all intellectual property rights conveyed under the agreement shall revert back to us; upon a termination by Novo Nordisk for our breach, the licenses granted under the agreement shall remain in effect, subject to Novo Nordisk s payment obligations under the agreement.

On February 20, 2015 Novo Nordisk announced positive Phase 2 data pertaining to OG217SC, the oral formulation of semaglutide, a long-acting human GLP-1 analogue that stimulates insulin and suppresses glucagon secretion in a glucose-dependent manner. OG217SC is provided in a tablet formulation with the absorption-enhancing excipient, SNAC. SNAC is an Eligen[®] Carrier. Novo Nordisk announced that it has successfully completed the phase 2 trial for OG217SC, investigating dose range, escalation, efficacy and safety of once-daily oral semaglutide compared with oral placebo or once-weekly subcutaneously administered semaglutide in around 600 people with type 2 diabetes treated for 26 weeks. Based on these results, Novo Nordisk announced that it will initiate consultations with regulatory authorities subsequent to which a decision of whether to progress OG217SC into phase 3 development will be made.

The Phase II trial was designed to examine the dose range, escalation and efficacy of oral semaglutide dosed once daily over 26 weeks in subjects with Type 2 diabetes. Phase I development successfully completed with Oral GLP-1, OG217SC (NN9924). During January 2010, we announced that Novo Nordisk had initiated its first Phase I clinical trial with a long-acting oral GLP-1 analog (NN9924). This milestone released a \$2 million payment to Emisphere. The first Phase I Trial investigated the safety, tolerability and bioavailability of NN9924 in healthy volunteers. The trial enrolled 155 individuals and was completed in May 2010. Novo Nordisk also conducted a multiple-dose Phase I trial. This multiple-dose trial investigated safety, tolerability, pharmacokinetics and pharmacodynamics of NN9924 in healthy male subjects. The trial enrolled 96 individuals and was completed in July 2011. In May of 2013, Novo Nordisk completed the last of five clinical pharmacology trials investigating the safety, tolerability as well as pharmacokinetic and pharmacodynamic profiles of oral administration of semaglutide tablets, OG217SC. The Phase I program in total comprised 400 healthy volunteers and 10 people with Type 2 diabetes. In the trials, oral semaglutide treatment appeared to be safe and was well-tolerated. The most frequent reported adverse events were mild or moderate in severity and in line with observations from other GLP-1 class treatments with Type 2 diabetes. In a 10-week multiple-dosing trial, oral administration of semaglutide was associated with a statistically significantly larger weight loss than placebo in healthy volunteers and people with Type 2 diabetes. Further, a statistically significant improvement in HbA1c



was observed when compared to placebo treatment in the low number of people with Type 2 diabetes participating in the trial.

On August 26, 2015, Novo Nordisk announced that it will initiate a global Phase 3a development program with oral semaglutide, a once daily oral formulation of the long-acting GLP-1 analog for the treatment of Type 2 diabetes, using our absorption-enhancing carrier, monosodium N-[8-(2-hydroxybenzoyl) amino] caprylate (SNAC), which is one of our Eligeffechnology delivery agents, or carriers. Novo Nordisk intends to initiate the Phase 3a program, which will consist of seven trials and approximately 9,300 patients with Type 2 diabetes. Novo Nordisk s decision to initiate this global phase 3a program follows encouraging results from the proof of concept Phase 2 program and consultations with regulatory authorities. In February 2016, Novo Nordisk initiated the first Phase 3a trial of oral semaglutide, an oral formulation of Novo Nordisk s long-acting GLP-1 analogue semaglutide using the Emisphere Eligen Technology. Novo Nordisk has now initiated all 10 clinical trials, including PIONEER 6 (a pre-approval long term cardiovascular outcomes trial in approximately 3,100 people), PIONEER 8 (an insulin add-on trial in approximately 700 people), PIONEER 9 (a monotherapy trial in approximately 200 Japanese people) and PIONEER 10 (an oral anti-diabetic combination trial in approximately 300 Japanese people). The advancement of oral semaglutide into Phase 3a development represents a significant milestone for our Eligen® Technology platform and supports our belief that products developed using our carriers have the potential to overcome bioavailability challenges commonly associated with the oral administration of peptides and certain other compounds.

On October 14, 2015, we amended the GLP-1 License Agreement for a third time to provide for, among other things, a payment of \$9.0 million to us from Novo Nordisk as prepayment of a product development milestone and in exchange for a reduction in certain future royalty payments. On April 26, 2013, we amended the GLP-1 License Agreement for a second time to provide for, among other things, for a payment of \$10 million from Novo Nordisk to the Company as a prepayment for the achievement of certain development milestones that would have otherwise become payable to the Company under the Development Agreement in exchange for a reduction in the rate of potential future royalty payments as provided in the Development Agreement.

Insulins License Agreement

During December 2010, the Company entered into an exclusive license agreement with Novo Nordisk to develop and commercialize oral formulations of Novo Nordisk s insulins using Emisphere s Eligeffechnology (the Insulins License Agreement). The Insulins License Agreement includes \$57.5 million in potential product development and sales milestone payments to Emisphere, of which \$5 million was paid upon signing, as well as royalties on sales. The agreement remains in effect, on a country-by-country basis, for the longer of 10 years from the date of first sale of a licensed product in such country, or the date of expiration of the last-to-expire patent covered by the agreement in such country. Novo Nordisk may terminate this agreement with 90 days prior notice. We may terminate this agreement in the event that Novo Nordisk challenges the validity of any licensed patent under the agreement, but only with respect to the patents belonging to the patent family of the challenged patent. Either party may also terminate the agreement upon the other party s material breach, if not cured within a specified period of time. Upon a termination of the agreement by Emisphere for Novo Nordisk for our breach, all intellectual property rights conveyed under the agreement shall revert back to us; upon a termination by Novo Nordisk for our breach, the licenses granted under the agreement shall remain in effect, subject to Novo Nordisk s payment obligations under the agreement.

This extended partnership with Novo Nordisk has the potential to offer significant new solutions to millions of people with diabetes worldwide and it also serves to further validate our Eligen[®] Technology.

Novartis Pharma AG

Oral Salmon Calcitonin Program for Osteoporosis and Osteoarthritis

We entered into a Research Collaboration and Option Agreement, dated as of December 3, 1997, as amended on October 20, 2000 (the Salmon Calcitonin Option Agreement) with Novartis to develop an oral form of salmon calcitonin (sCT) to treat osteoarthritis and osteoporosis (the Salmon Calcitonin Program), which is a hormone that inhibits the bone-tissue resorbing activity of specialized bone cells called osteoclasts,

enabling the bone to retain more of its mass and functionality. During December 2011, Novartis informed the Company that it would not purse further clinical development of the investigational drug SNC021 (oral calcitonin) as a treatment option in osteoarthritis and for post-menopausal osteoporosis and that it would not seek regulatory submission for SMC021 in either indication. Novartis advised te Company that its decision to stop the clinical program of SMC021 in both indications was based on analysis and evaluation of data from three Phase III clinical trials (two in osteoarthritis and one in osteoporosis) conducted by Nordic Bioscience AS, which showed that SMC021 failed to meet key efficacy endpoints in all three trials, despite displaying a favorable safety profile. Although Novartis has not informed Emisphere if its intention to terminate the Salmon Calcitonin Option Agreement and the Salmon Calcitonin License Agreement, in the event that Novartis determined to terminate these agreements, we will reacquire the rights to our technology licensed to Novartis thereunder.

Oral PTH-1-34 Program

We have collaborated with Novartis in connection with the development and testing of oral formulations of PTH-1-34 (PTH) to treat osteoarthritis and osteoporosis (the PTH Program). On December 1, 2004, we entered into a Research Collaboration Option and License Agreement with Novartis whereby Novartis obtained an option to license our existing technology to develop oral forms of PTH 1-34 (the PTH Option Agreement). During March 2006, Novartis exercised its option to the license. During April 2010, we announced that Novartis initiated a second Phase I trial for an oral PTH-1-34 which uses Emisphere s Eligen Technology, and was in development for the treatment of postmenopausal osteoporosis. During June 2011, Novartis informed Emisphere of the results of its recently completed Proof of Concept study for an oral PTH1-34 using Emisphere s Eligen Technology in post-menopausal women with osteoporosis or osteopenia. Novartis informed Emisphere that, although the study confirmed that oral PTH1-34 was both safe and well-tolerated, several clinical endpoints were not met. Based on the data analyzed, Novartis terminated the study and did not anticipate further work on the oral formulation of PTH1-34. Although Novartis has not informed Emisphere of its intention to terminate the PTH Option Agreement in accordance with relevant terms thereunder, Emisphere would reacquire the rights to develop and/or commercialize the product should Novartis so terminate the Agreement.

Research and Development Costs

We have devoted substantially all of our efforts and resources to research and development conducted on our own behalf (self-funded) and in collaborations with corporate partners (partnered). Generally, research and development expenditures are allocated to specific research projects. Due to various uncertainties and risks, including those described in Part 1, Item 1A. Risk Factors below, relating to the progress of our product candidates through development stages, clinical trials, regulatory approval, commercialization and market acceptance, it is not possible to accurately predict future spending or time to completion by project or project category.

The following table summarizes research and development spending to date by project category:

	Year Ended December 31,			Cumulative Spending	
	2016	2015 (In	2014 thousands)	2016(1)	
Research(2)	\$	\$	\$ 492	\$ 52,681	
Feasibility projects				52	
Self-funded		29	201	14,262	
Partnered				4,353	
Development projects				99,592	
Oral heparin (self-funded)				99,592	
Oral insulin (self-funded)				21,292	
Partnered				12,157	
Other(3)	373	446	435	108,811	
Total all projects	\$ 373	\$ 475	\$ 1,128	\$ 313,148	

(1) Cumulative spending from August 1, 1995 through December 31, 2016.

12

(2) Research is classified as resources expended to expand the ability to create new carriers, to ascertain the mechanisms of action of carriers, and to establish computer based modeling capabilities, prototype formulations, animal models, and *in vitro* testing capabilities.

(3) Other includes indirect costs such as rent, utilities, training, standard supplies and management salaries and benefits. **Patents and Other Forms of Intellectual Property**

Our success depends, in part, on our ability to obtain patents, maintain trade secret protection, and operate without infringing the proprietary rights of others (please refer to Part I, Item 1A **Risk Factors** for further discussion of how our business will suffer if we cannot adequately protect our patent and proprietary rights). We seek patent protection on various aspects of our proprietary chemical and pharmaceutical delivery technologies, including the delivery agent compounds and the structures which encompass Emisphere s delivery agents, their method of preparation, the combination of our compounds with a pharmaceutical, and use of our compounds with therapeutic molecules to treat various disease states. We have patents and patent applications in the U.S. and certain foreign countries. As of March 1, 2017, Emisphere had been granted more than 120 U.S. patents and more than 200 foreign patents. Emisphere also has more than 25 pending U.S. patent applications as well as more than 150 counterpart applications pending in foreign countries.

We intend to file additional patent applications when appropriate and to aggressively prosecute, enforce, and defend our patents and other proprietary technology.

We have five trademarks registered with the U.S. Patent and Trademark Office. They include three registrations for Emisphere[®] in connection with drug delivery agents and research and development in the field of drug delivery systems, and two registrations for ELIGEN[®] in connection with drug delivery agents and research and development in the field of drug delivery systems.

We also rely on trade secrets, know-how, and continuing innovation in an effort to develop and maintain our competitive position. Patent law relating to the patentability and scope of claims in the biotechnology and pharmaceutical fields is evolving and our patent rights are subject to this additional uncertainty. Others may independently develop similar product candidates or technologies or, if patents are issued to us, design around any products or processes covered by our patents. We expect to continue, when appropriate, to file product and other patent applications with respect to our inventions. However, we may not file any such applications or, if filed, the patents may not be issued. Patents issued to or licensed by us may be infringed by the products or processes of others.

Defense and enforcement of our intellectual property rights can be expensive and time consuming, even if the outcome is favorable to us. It is possible that the patents issued to or licensed to us will be successfully challenged, that a court may find that we are infringing validly issued patents of third parties, or that we may have to alter or discontinue the development of our products or pay licensing fees to take into account patent rights of third parties.

The primary raw materials used in making the delivery agents for our product candidates are readily available in large quantities from multiple sources. In the past we manufactured delivery agents internally using our own facilities on a small scale for research and development purposes and for early stage clinical supplies. We believe that our manufacturing capabilities complied with the FDA s current Good Manufacturing Practice (GMP).

Currently, EMISPHERE[®] delivery agents are manufactured by third parties in accordance with GMP regulations. We have identified other commercial manufacturers meeting the FDA s GMP regulations that have the capability of producing EMISPHERÊ delivery agents and we do not rely on any particular manufacturer to supply us with needed quantities.

Competition

Our success depends in part upon maintaining a competitive position in the development of product candidates and technologies in an evolving field in which developments are expected to continue at a rapid pace.

We compete with other drug delivery, biotechnology and pharmaceutical companies, research organizations, individual scientists and non-profit organizations engaged in the development of alternative drug delivery technologies or new drug research and testing, and with entities developing new drugs that may be orally active. Our product candidates compete against alternative therapies or alternative delivery systems for each of the medical conditions our product candidates address, independent of the means of delivery. Many of our competitors have substantially greater research and development capabilities, experience, marketing, financial and managerial resources than we have. In many cases we rely on our development partners to develop and market our product candidates.

Oral Diabetes Competition Type 2 Diabetes

In diabetes, there are a number of unmet needs which amplify the need for further product development in the area. There are three main areas of drug therapy, oral anti-diabetes, insulin, and injectable in which companies are attempting to develop innovative products for the treatment of patients.

There are four leading classes for new product development in the area of diabetes. All four seek to take advantage of the potential to improve upon currently available products:

- 1. GLP-1 Agonists
- 2. Pulmonary Insulin
- 3. DPP-IV Inhibitors
- 4. PPAR modulators.

The objective of our collaboration with Novo Nordisk is to develop an orally available GLP-1 agonist for the treatment of Type 2 diabetes and potentially obesity. A product with the benefits of glucose control, promotion of weight loss, low risk of hypoglycemia, and other benefits is expected to significantly improve therapeutic options and can be expected to perform as well as or better than the existing competition.

Oral Vitamin B12 Competition

Emisphere s potential competition in the Vitamin B12 market will depend on the direction the company takes in the development and commercialization of the product. In the event that Emisphere pursues the nutritional supplements market, competition would include a number of companies selling generic Vitamin B12 in a variety of dosage strengths and methods of delivery (e.g., oral, transdermal, nasal, sublingual) many of which have substantial distribution and marketing capabilities that exceed and will likely continue to exceed our own. In addition, our competition is likely to include many sellers, distributors, and others who are in the business of marketing, selling, and promoting multiple vitamins, vitamin-mineral, and specialized vitamin combinations. Many of these competitors are engaged in low cost, high volume operations that could provide substantial market barriers or other obstacles for a higher cost, potentially superior product that has no prior market history.

In order to successfully penetrate the Vitamin B12 medical food market, the Company will need to successfully demonstrate to physicians, nurse-practitioners and payers that an oral dose would be safe, efficacious, readily-accessible and improve compliance. These factors will likely require the Company to engage in a substantial educational and promotional product launch and a marketing outreach initiative, the time, cost, and outcome of which are uncertain.

Competition Summary

Although we believe that our oral formulations, if successful, will likely compete with well-established injectable versions of the same drugs, we believe that we will enjoy a competitive advantage because physicians and patients prefer orally delivered forms of products over injectable forms. Oral forms of products enable improved compliance, and for many programs, the oral form of products enable improved therapeutic regimens.

Government Regulation

Our operations and product candidates under development are subject to extensive regulation by the FDA, other governmental authorities in the U.S. and governmental authorities in other countries.

14

The duration of the governmental approval process for marketing new pharmaceutical substances, from the commencement of pre-clinical testing to receipt of governmental approval for marketing a new product, varies with the nature of the product and with the country in which such approval is sought. The approval process for new chemical entities could take eight to ten years or more. The process for reformulations of existing drugs is typically shorter, although a combination of an existing drug with a currently unapproved carrier could require extensive testing. In either case, the procedures required to obtain governmental approval to market new drug products will be costly and time-consuming to us and our partners, requiring rigorous testing of the new drug product. Even after such time and effort, regulatory approval may not be obtained for our products.

The steps required before we can market or ship a new human pharmaceutical product commercially in the U.S. include pre-clinical testing, the filing of an Investigational New Drug Application (IND) with the FDA, the conduct of clinical trials and the filing with the FDA of either a New Drug Application (NDA) for drugs or a Biologic License Application (BLA) for biologics.

Prior to conducting the clinical (human) investigations necessary to obtain regulatory approval of marketing of new drugs in the U.S., we must file an IND with the FDA to permit the shipment and use of the drug for investigational purposes. The IND sets forth, in part, the results of pre-clinical (laboratory and animal) toxicology testing and the applicant s initial Phase I plans for clinical testing. Unless notified that testing may not begin, clinical testing may commence 30 days after filing an IND.

Under FDA regulations, the clinical testing program required for marketing approval of a new drug typically involves three clinical phases. In Phase 1, safety studies are generally conducted on normal, healthy human volunteers to determine the maximum dosages and side effects associated with increasing doses of the substance being tested. Phase 2 studies are conducted on small groups of patients afflicted with a specific disease to gain preliminary evidence of efficacy, including the range of effective doses, and to determine common short-term side effects and risks associated with the substance being tested. Phase 3 involves large-scale trials conducted on disease-afflicted patients to provide statistically significant evidence of efficacy and safety and to provide an adequate basis for product labeling. Frequent reports are required in each phase and if unwarranted hazards to patients are found, the FDA may request modification or discontinuance of clinical testing until further studies have been conducted. The FDA may also require post-approval Phase 4 testing either to meet FDA requirements for additional information as a condition of approval. Our drug product candidates are and will be subjected to each step of this lengthy process from conception to market and many of those candidates are still in the early phases of testing.

Once clinical testing has been completed pursuant to an IND, the applicant files an NDA or BLA with the FDA seeking approval for marketing the drug product. The FDA reviews the NDA or BLA to determine whether the drug is safe, effective, and adequately labeled, and whether the applicant can demonstrate proper and consistent manufacture of the drug. The time required for initial FDA action on an NDA or BLA is set on the basis of user fee goals; for most NDA or BLAs the action date is 10 months from receipt of the NDA or BLA by the FDA. The initial FDA action at the end of the review period may be approval or a request for additional information that will be needed for approval depending on the characteristics of the drug and whether the FDA has concerns with the evidence submitted. Once our product candidates reach this stage, we will be subjected to these additional costs of time and money.

The FDA has different regulations and processes governing and regulating food products, including vitamin supplements and nutraceuticals. These products include dietary supplements , food additives , dietary ingredients , medical foods , and, most broadly, food . These foods product do not require the IND, NDA or BLA process outlined above. Medical foods, which are defined under the FDA s 1988 Orphan Drug Act Amendments and are subject to the general food and safety labeling requirements of the Federal Food, Drug, and Cosmetic Act, are specially formulated and intended for the dietary management of a disease that has distinctive nutritional needs that cannot be met by normal diet alone. Medical foods are distinct from the broader category of foods for special dietary use and from traditional foods that bear a health claim. In order to be considered a medical food the product must, at a minimum:

be a food for oral ingestion or tube feeding (nasogastric tube);

be labeled for the dietary management of a specific medical disorder, disease or condition for which there are distinctive nutritional requirements; and

be intended to be used under medical supervision. Medical foods require a prescription from a physician.

The facilities of each company involved in the commercial manufacturing, processing, testing, control and labeling of pharmaceutical products must be registered with and approved by the FDA. Continued registration requires compliance with GMP regulations and the FDA conducts periodic establishment inspections to confirm continued compliance with its regulations. We are subject to various federal, state and local laws, regulations and recommendations relating to such matters as laboratory and manufacturing practices and the use, handling and disposal of hazardous or potentially hazardous substances used in connection with our research and development work.

While we do not currently manufacture any commercial products ourselves, if we did, we would bear additional cost of FDA compliance.

In addition, the distribution of prescription pharmaceutical products in the United States is subject to the Prescription Drug Marketing Act, or PDMA, which regulates the distribution and recordkeeping requirements for drugs and drug samples at the federal level, and sets minimum standards for the registration and regulation of drug distributors by the states. Both the PDMA and state laws limit the distribution of prescription pharmaceutical product samples and impose requirements to ensure accountability in distribution.

We are also subject to various federal and state laws pertaining to health care fraud and abuse issues, including anti-kickback laws and false claims laws. Anti-kickback laws make it illegal for a prescription drug manufacturer to solicit, offer, receive, or pay any remuneration in exchange for, or to induce, the referral of business, including the purchase or prescribing of a particular drug. False claims laws prohibit anyone from knowingly and willfully presenting, or causing to be presented for payment to the United States government, including Medicare and Medicaid, claims for reimbursed drugs or services that are false or fraudulent, claims for items or services not provided as claimed, or claims for medically unnecessary items or services. We have adopted the Pharmaceutical Research and Manufacturers of America Code on Interactions with Healthcare Professionals, which is a voluntary industry code developed to establish standards for interactions with and communications to healthcare professionals and we have adopted processes that we believe enhance compliance with this code and applicable federal and state laws.

Employees

As of December 31, 2016, we had 6 full time employees, and a small group of insourced consultants who perform business development, project management, sales and market planning, logistics and supply chain planning, accounting, information technology, engineering, facilities maintenance, legal and regulatory, IP and administrative functions. Our employees all hold the necessary experience and degrees to the relevant functions outlined above and we are confident that our relationship with all employees is both positive and productive.

Available Information

Emisphere files annual, quarterly, and current reports, proxy statements, and other documents with the Securities and Exchange Commission, (the SEC) under the Securities Exchange Act of 1934 as amended (the Exchange Act). The public may read and copy any materials that we file with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Also, the SEC maintains an internet website that contains reports, proxy and information statements, and other information regarding issuers, including Emisphere, that file electronically with the SEC. The public can obtain any documents that Emisphere files with the SEC at www.sec.gov.

We also make available free of charge on or through our internet website (www.emisphere.com) our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, Section 16 filings, and, if applicable, amendments to those reports filed or furnished pursuant to Section 13(a) or Section 16 of the Exchange Act as soon as reasonably practicable after we or the reporting person electronically files such material with, or furnishes it to, the SEC. Our internet website and the information contained therein or connected thereto are not intended to be incorporated into the Annual Report or this Form 10-K.

Our Board of Directors has adopted a Code of Business Conduct and Ethics which is posted on our website at http://ir.emisphere.com/documentdisplay.cfm?DocumentID=4947.

ITEM 1A. RISK FACTORS

An investment in our common stock involves a number of very significant risks. You should carefully consider the following risks and uncertainties in addition to other information in this report in evaluating our company and its business before purchasing shares of our company s common stock. Our business, operating results and financial condition could be seriously harmed due to any of the following risks. You could lose all or part of your investment due to any of these risks.

Risks Related to the Company

We have limited capital resources and significant commitments and obligations.

We have limited capital resources and operations to date have been funded with the proceeds from collaborative research agreements, and debt financings. We anticipate that we will continue to generate significant losses from operations for the foreseeable future, and that our business will require substantial additional investment that we have not yet secured. As such, we anticipate that our existing capital resources will enable us to continue operations through approximately March 2018, or earlier if unforeseen events or circumstances arise that negatively affect our liquidity.

Moreover, as of December 31, 2016, our accumulated deficit was approximately \$564.6 million, and our obligations included approximately \$82.2 million (face value) under our secured debt obligations.

Management has concluded that due to the conditions described above, there is substantial doubt about the entity s ability to continue as a going concern through March 30, 2018. We have evaluated the significance of the conditions in relation to our ability to meet our obligations and believe that our current cash balance will provide sufficient capital to continue operations through approximately March 2018. While our plan is to raise capital from commercial operations and/or product partnering opportunities to address our capital deficiencies and meet our operating cash requirements, there is no assurance that our plans will be successful. If we fail to generate sufficient capital from commercial operations or partnerships, we will need to seek capital from other sources and risk default under the terms of our existing loans. We cannot assure you that financing will be available on favorable terms or at all. Furthermore, despite our optimism regarding the Eligen [®] Technology, even in the event that the Company is adequately funded, there is no guarantee that any of our products or product candidates will perform as hoped or that such products can be successfully commercialized.

We have a history of operating losses and we may never achieve profitability.

As of December 31, 2016, we had approximately \$6.1 million in cash and cash equivalents, approximately \$3.2 million in working capital deficiency, a stockholders deficit of approximately \$161.4 million and an accumulated deficit of approximately \$564.6 million. Our operating loss for the twelve months ended December 31, 2016 was approximately \$7.8 million. Since our inception in 1986, we have generated significant losses from operations. We anticipate that we will continue to generate significant losses from operations for the foreseeable future, and that our business will require substantial additional investment that we have not yet secured. These conditions raise substantial doubt about our ability to continue as a going concern.

We anticipate that our existing capital resources will enable us to continue operations through approximately March 2018, or earlier if unforeseen events or circumstances arise that negatively affect our liquidity.

While our plan is to raise capital and/or to pursue product partnering opportunities to address our capital deficiencies, we cannot be sure how much we will need to spend in order to develop, market, and manufacture new products and technologies in the future. We expect to continue to spend substantial amounts on research and development, including amounts spent on conducting clinical trials for our product candidates. Further, we will not have sufficient resources to develop fully any new products or technologies unless we are able to raise substantial additional financing or to secure funds from new or existing partners. We cannot assure you that financing will be available when needed, or on favorable terms or at all. The current economic environment combined with a number of other factors pose additional challenges to the Company in securing adequate financing under acceptable terms. If additional capital is raised through the sale of equity or convertible debt securities, the issuance of such securities would result in dilution to our existing stockholders.

Additionally, these conditions may increase the costs to raise capital. Our failure to raise capital when needed would adversely affect our business, financial condition, and results of operations, and could force us to reduce or discontinue operations.

We are highly dependent upon collaborative partners to develop and commercialize compounds using our delivery agents.

A key part of our strategy is to form collaborations with pharmaceutical companies for the licensing of our Eligen[®] Technology. We currently have active collaborative agreements for products in clinical development with Novo Nordisk.

We negotiate specific ownership rights with respect to the intellectual property developed as a result of the collaboration with each partner. While ownership rights vary from program to program, in general we retain ownership rights to developments relating to our carrier and the collaborator retains rights related to the drug product developed.

Despite our existing agreements, we cannot make any assurances that:

we will be able to enter into additional collaborative arrangements to develop products utilizing our drug delivery technology;

any existing or future collaborative arrangements will be sustainable or successful;

the product candidates in collaborative arrangements will be further developed by partners in a timely fashion;

any collaborative partner will not infringe upon our intellectual property position in violation of the terms of the collaboration contract; or

milestones in collaborative agreements will be met and milestone payments will be received. If we are unable to maintain or enter into new collaborative arrangements with partners, we may be unable to raise sufficient capital to fund our operations.

Our collaborative partners control the clinical development of the drug candidates and may terminate their efforts at will.

Our collaborative agreements with Novo Nordisk and Novartis provide that they control clinical development program and may terminate their programs at will for any reason and without any financial penalty or requirement to fund any further clinical studies. Novartis has discontinued all active clinical programs with us, and we cannot make any assurance that Novo Nordisk will continue to advance the clinical development of the drug candidates subject to collaboration.

Moreover, aside from provisions preventing the unauthorized use of our intellectual property by our collaborative partners, there is nothing in our collaborative agreements that prevent our partners from developing competing products. If one of our partners were to develop a competing product, our collaboration could be substantially jeopardized.

We cannot be sure that our plans for Eligen B12 will be successful.

We expended substantial resources on the development of an oral dosage form of Vitamin B12 which we market as a medical food for use by B12 deficient individuals. We launched the product in March 2015 and in light of product sales levels, have determined that a strategic transaction or collaboration with a third party for oral Eligen B12 Rx in the United States and internationally is necessary to optimize the value of the product to the Company and shareholders. Our inability to enter into such a transaction or collaboration, or, if we are unable to do so, to meet our sales targets for the B12 product could have a significant material adverse effect on our business.

Moreover, our ability to meet future payment obligations under the terms of our existing indebtedness, fund continuing operations and business expansion are highly dependent upon our ability to optimize the value of the oral Eligen B12 product in the U.S. and global markets during 2016 and in future years. We cannot assure you that we will succeed in these efforts as these involve activities (or portions of activities) that we have not previously completed and/or that are out of control. In addition, even if we continue to pursue the commercialization of the product ourselves, Vitamin B12 is available at reasonably low prices both in injections and tablet forms (as well as other forms) through a variety of distributors, sellers, and other sources. We have entered a highly competitive market with limited commercial capability. This outline of risks involved in the commercialization of our B12 product is not exhaustive, but illustrative. For example, it does not include additional competitive, intellectual property, commercial, product liability, and commercial risks involved in a launch of the B12 product candidate outside the U.S. or certain of such risks in the U.S.

We may not be able to meet covenants or financial obligations detailed in certain of our debt obligations.

Our inability to meet any of the terms or covenants contained in our debt obligations could result in increased interest rates and/or accelerated the maturity of certain of these obligations. While we recently received a waiver for, among other things, Eligen B12 sales milestones contained in certain of our credit facilities, there can be no assurance that we will receive any future waivers or that we will satisfy all or any of the terms in our debt obligations. Our debt obligations are secured by a first priority lien on substantially all of our assets, and if we default on our obligations under these obligations, our assets may be foreclosed on and we would be required to cease operations.

We cannot be certain that any product that we or a partner develop will be successfully commercialized.

To be profitable, we or a partner must successfully research, develop, obtain regulatory approval for, manufacture, introduce, market, and distribute our products under development. The time necessary to achieve these goals for any individual pharmaceutical product is long and can be uncertain. Before we or a potential partner can commercialize a pharmaceutical product, pre-clinical (animal) studies and clinical (human) trials must demonstrate that the product is safe and effective for human use for each targeted indication. We have never successfully commercialized a drug or a nonprescription candidate and we cannot be certain that we or our current or future partners will be able to begin, or continue, planned clinical trials for our product candidates, or if we are able, that the product candidates will prove to be safe and will produce their intended effects.

Even if products incorporating our technology are safe and effective, the size of the solid dosage form, taste, and frequency of dosage may impede their acceptance by patients.

A number of companies in the drug delivery, biotechnology, and pharmaceutical industries have suffered significant setbacks in clinical trials, even after showing promising results in earlier studies or trials. Only a small number of research and development programs ultimately result in commercially successful drugs. Favorable results in any pre-clinical study or early clinical trial do not imply that favorable results will ultimately be obtained in future clinical trials. We cannot make any assurance that results of limited animal and human studies are indicative of results that would be achieved in future animal studies or human clinical studies, all or some of which will be required in order for our product candidates incorporating our technology to obtain regulatory approval. Similarly, we cannot assure you that any of product candidates incorporating our technology for a specific disease or condition and the necessary regulatory approvals are obtained, the commercial success of any of such product candidates will depend upon their acceptance by patients, the medical community, and third-party payers and on our partners ability to successfully manufacture and commercialize such product candidates.

Our future business success depends heavily upon regulatory approvals, which can be difficult and expensive to obtain.

Pre-clinical studies and clinical trials of prescription drugs and biologic product candidates, as well as the manufacturing and marketing of our product candidates, are subject to extensive, costly and rigorous regulation by governmental authorities in the U.S. and other countries. The process of obtaining required approvals from the

FDA and other regulatory authorities often takes many years, is expensive, and can vary significantly based on the type, complexity, and novelty of the product candidates. We cannot assure you that we, or our partners, will meet the applicable regulatory criteria in order to receive the required approvals for manufacturing and marketing any product incorporating our technology. Delays in obtaining regulatory approvals encountered by others with whom we collaborate also could adversely affect our business and prospects. Even if regulatory approval of a product is obtained, the approval may place limitations on the intended uses of the product, and may restrict the way in which we or our partner may market the product.

The regulatory approval process for our drug product candidates presents numerous risks, including:

Pre-clinical tests and clinical trials can take many years, and require the expenditure of substantial resources. The data obtained from these tests and trials can be susceptible to varying interpretation that could delay, limit or prevent regulatory approval

Delays or rejections may be encountered during any stage of the regulatory process based upon the failure of the clinical or other data to demonstrate compliance with, or upon the failure of the product to meet, a regulatory agency s requirements for safety, efficacy, and quality or, in the case of a product seeking an orphan drug indication, because another designee received approval first

Requirements for approval may become more stringent due to changes in regulatory agency policy or the adoption of new regulations or guidelines

New guidelines can have an effect on the regulatory decisions made in previous years

The scope of any regulatory approval, when obtained, may significantly limit the indicated uses for which a product may be marketed and may impose significant limitations in the nature of warnings, precautions, and contraindications that could materially affect the profitability of the drug

Approved drugs, as well as their manufacturers, are subject to continuing and ongoing review, and discovery of problems with these products or the failure to adhere to manufacturing or quality control requirements may result in restrictions on their manufacture, sale or use or in their withdrawal from the market

Regulatory authorities and agencies may promulgate additional regulations restricting the sale of our existing and proposed products, and

Once a product receives marketing approval, the FDA will not permit that the marketing of such product for broader or different indications, or will not grant clearance with respect to separate product applications that represent extensions of our basic technology. In addition, the FDA may withdraw or modify existing clearances in a significant manner or promulgate additional regulations restricting the sale of products

Additionally, we face the risk that competitors may gain FDA approval for a product before we or our partners do. Having a competitor reach the market before us would impede the future commercial success for a product because we believe that the FDA uses heightened standards of approval for products once approval has been granted to a competing product in a particular therapeutic area. We believe that this standard generally limits new approvals to only those products that meet or exceed the standards set by the previously approved product.

We are highly dependent on third parties to manufacture, distribute, and sell our products.

We have hired expertmanufacturing, logistics and customer services vendors to support the commercialization of Eligen B12 . The success of our commercial operations is dependent upon the ability of these vendors to provide a high level of service and support at an economical price. If we

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fail to attract and retain such professionals or service providers at a reasonable price, or if third parties do not successfully carry out their contractual obligations, meet expected deadlines or conduct our activities in accordance with applicable law and regulatory requirements or our stated specifications, we may not be able to, or may be delayed in our efforts to, successfully execute upon our commercial strategy.

Our business will suffer if we cannot adequately protect our patent and proprietary rights.

Although we have patents covering our drug delivery technology and have applied for additional patents, there can be no assurance that patents applied for will be granted, that patents granted to or acquired by us now or in the future will be valid and enforceable and provide us with meaningful protection from competition, or that

20

we will possess the financial resources necessary to enforce any of our patents. Also, we cannot be certain that any products that we (or a licensee) or a partner develop will not infringe upon any patent or other intellectual property right of a third party.

We also rely upon trade secrets, know-how, and continuing technological advances to develop and maintain our competitive position. We maintain a policy of requiring employees, scientific advisors, consultants, and collaborators to execute confidentiality and invention assignment agreements upon commencement of a relationship with us. We cannot assure you that these agreements will provide meaningful protection for our trade secrets in the event of unauthorized use or disclosure of such information.

Part of our strategy involves collaborative arrangements with other pharmaceutical companies for the development of new formulations of drugs developed by others and, ultimately, the receipt of royalties on sales of the new formulations of those drugs. These drugs are generally the property of the pharmaceutical companies and may be the subject of patents or patent applications and other rights of protection owned by the pharmaceutical companies. To the extent those patents or other forms of rights expire, become invalid or otherwise ineffective, or to the extent those drugs are covered by patents or other forms of protection owned by third parties, sales of those drugs by the collaborating pharmaceutical company may be restricted, limited, enjoined, or may cease. Accordingly, the potential for royalty revenues to us may be adversely affected.

We may be at risk of having to obtain a license from third parties making proprietary improvements to our technology.

There is a possibility that third parties may make improvements or innovations to our technology in a more expeditious manner than we do. Although we are not aware of any such circumstance related to our product portfolio, should such circumstances arise, we may need to obtain a license from such third party to obtain the benefit of the improvement or innovation. Royalties payable under such a license would reduce our share of total revenue. Such a license may not be available to us at all or on commercially reasonable terms. Although we currently do not know of any circumstances related to our product portfolio which would lead us to believe that a third party has developed any improvements or innovation with respect to our technology, we cannot assure you that such circumstances will not arise in the future. We cannot reasonably determine the cost to us of the effect of being unable to obtain any such license.

We are dependent on third parties to manufacture and test our products.

Currently, we have no long term manufacturing agreements in place and no manufacturing facilities for production of our carriers or any therapeutic compounds being commercialized or under consideration as products. We have no facilities for clinical testing. The success of our self-developed programs is dependent upon securing manufacturing capabilities and contracting with clinical service and other service providers.

The availability of manufacturers is limited by both the capacity of such manufacturers and their regulatory compliance. Among the conditions for FDA approval is the requirement that the prospective manufacturer s quality control and manufacturing procedures continually conform with the FDA s current GMP (GMP are regulations established by the FDA that govern the manufacture, processing, packing, storage and testing of drugs intended for human use). In complying with GMP, manufacturers must devote extensive time, money, and effort in the area of production and quality control and quality assurance to maintain full technical compliance. Manufacturing facilities and company records are subject to periodic inspections by the FDA to ensure compliance. If a manufacturing facility is not in substantial compliance with these requirements, regulatory enforcement action may be taken by the FDA, which may include seeking an injunction against shipment of products from the facility and recall of products previously shipped from the facility. Such actions could severely delay our ability to obtain product from that particular source.

The success of our clinical trials and our partnerships is dependent on the proposed or current partner s capacity and ability to adequately manufacture drug products to meet the proposed demand of each respective market. Any significant delay in obtaining a supply source (which could result from, for example, an FDA determination that such manufacturer does not comply with current GMP) could harm our potential for success. Additionally, if a current manufacturer were to lose its ability to meet our supply demands during a clinical trial, the trial may be delayed or may even need to be abandoned.

The availability and amount of reimbursement for oral Eligen B12 and any future products, and the manner in which government and private payers may reimburse for our products, are uncertain.

Sales of Eligen B12 or any of our product candidates will depend in part on the availability of reimbursement from third-party payers such as government health administration authorities, private health insurers and other organizations. The future magnitude of our revenues and profitability, should we continue to commercialize the product ourselves, may be affected by the continuing efforts of governmental and third-party payers to contain or reduce the costs of health care. We cannot predict the effect that private sector or governmental health care reforms may have on our business, and there can be no assurance that any such reforms will not have a material adverse effect on our business, financial condition and results of operations.

In addition, in both the United States and elsewhere, sales of prescription drugs are dependent in part on the availability of reimbursement to the consumer from third-party payers, such as government and private insurance plans. The ability to obtain reimbursement of our products from these parties is a critical factor in the commercial success for any of our products. Failure to obtain reimbursement could result in reduced or no sales of our products.

Third-party payers are increasingly challenging the price and cost-effectiveness of medical products and services. Significant uncertainty exists as to the reimbursement status of newly-approved health care products. There can be no assurance that our products will be considered cost-effective or that adequate third-party reimbursement will be available to enable us to maintain price levels sufficient to realize an appropriate return on our investment in product development. Legislation and regulations affecting the pricing of pharmaceuticals may change before any of our products are approved for marketing. Adoption of such legislation could further limit reimbursement for medical products and services.

Current and future legislation may increase the difficulty and cost of commercializing oral Eligen B12 and our products candidates, affect the prices we may obtain and limit reimbursement amounts.

In the United States and some foreign jurisdictions, there have been a number of legislative and regulatory changes and proposed changes regarding the healthcare system that could restrict or regulate post-approval activities and affect our revenues from future sales of our products.

The Medicare Modernization Act, or MMA, enacted in December 2003, has altered the way in which some physician-administered drugs and biologics are reimbursed by Medicare Part B. Under this reimbursement methodology, physicians are reimbursed based on a product s average sales price. This reimbursement methodology has generally led to lower reimbursement levels. This legislation also added an outpatient prescription drug benefit to Medicare, which went into effect in January 2006. These benefits are provided primarily through private entities, which we expect will attempt to negotiate price concessions from pharmaceutical manufacturers.

The Patient Protection and Affordable Care Act of 2010, or the PPACA, the future of which is uncertain may have a significant impact on the healthcare system. As part of this legislative initiative, Congress enacted a number of provisions that are intended to reduce or limit the growth of healthcare costs, which could significantly change the market for pharmaceuticals and biological products. The provisions of the PPACA could, among other things, increase pressure on drug pricing or make it costlier for patients to gain access to prescription drugs like our product candidates at affordable prices. This could ultimately lead to fewer prescriptions for our product candidates and could force individuals who are prescribed our products to pay significant out-of-pocket costs or pay for the prescription entirely by themselves. As a result of such initiatives, and the market acceptance and commercial success of our products, once approved, may be limited and our business may be harmed.

We may face product liability claims related to participation in clinical trials or future products.

The testing, manufacture, and marketing of products for humans utilizing our drug delivery technology may expose us to potential product liability and other claims. These may be claims directly by consumers or by pharmaceutical companies or others selling our future products. We seek to structure development programs with pharmaceutical companies that would complete the development, manufacturing and marketing of the finished product in a manner that would protect us from such liability, but the indemnity undertakings for product liability claims that we secure from the pharmaceutical companies may prove to be insufficient.

We face rapid technological change and intense competition.

Our success depends, in part, upon maintaining a competitive position in the development of technologies and products in an evolving field in which developments are expected to continue at a rapid pace. We compete with other drug delivery, biotechnology and pharmaceutical companies, research organizations, individual scientists, and non-profit organizations engaged in the development of alternative drug delivery technologies or new drug research and testing, as well as with entities developing new drugs that may be orally active. Many of these competitors have greater research and development capabilities, experience, and marketing, financial, and managerial resources than we have, and, therefore, represent significant competition.

Products using our technology, when developed and marketed, may compete with existing parenteral or other versions of the same drug, some of which are well established in the marketplace and manufactured by formidable competitors, as well as other existing drugs. Moreover, our competitors may succeed in developing competing technologies or obtaining government approval for products before we do. Developments by others may render our product candidates, or the therapeutic macromolecules used in combination with product candidates incorporating our technology, noncompetitive or obsolete. At least one competitor has notified the FDA that it is developing a competing formulation of salmon calcitonin. If our products are marketed, we cannot assure you that they will be preferred to existing drugs or that they will be preferred to or available before other products in development.

If a competitor announces a successful clinical study involving a product that may be competitive with one of our product candidates or an approval by a regulatory agency of the marketing of a competitive product, such announcement may have a material adverse effect on our operations or future prospects resulting from reduced sales of future products that we may wish to bring to market or from an adverse impact on the price of our common stock or our ability to obtain regulatory approval for our product candidates.

We are dependent on our key personnel and if we cannot recruit and retain leaders in our research, development, manufacturing, and commercial organizations, our business will be harmed.

We are dependent on our executive officers. The loss of one or more members of our executive officers or key employees could have an adverse effect on our business, financial condition and results of operations, given their specific knowledge related to our proprietary technology and personal relationships with our pharmaceutical company partners. If we are not able to retain our executive officers, our business may suffer. We do not maintain key-man life insurance policies for any of our executive officers.

There is intense competition in the biotechnology industry for qualified scientists and managerial personnel in the development, manufacture, and commercialization of drugs. We may not be able to continue to attract and retain the qualified personnel necessary for developing our business. Additionally, because of the knowledge and experience of our scientific personnel and their specific knowledge with respect to our drug carriers the continued development of our product candidates could be adversely affected by the loss of any significant number of such personnel.

Provisions of our corporate charter documents, Delaware law, and our stockholder rights plan may dissuade potential acquirers, prevent the replacement or removal of our current management and may thereby affect the price of our common stock.

Our Board of Directors has the authority to issue up to 4,000,000 shares of preferred stock and to determine the rights, preferences and privileges of those shares without any further vote or action by our stockholders. Of these 4,000,000 shares, the Board of Directors has the authority to designate that number of shares of Series A Junior Participating Cumulative Preferred Stock (A Preferred Stock) as is required under our stockholders rights plan described below. Those shares of preferred stock not designated as A Preferred Stock remain available for future issuance. Rights of holders of common stock may be adversely affected by the rights of the holders of any preferred stock that may be issued in the future.

Provisions of our corporate charter documents, Delaware law and financing agreements may prevent the replacement or removal of our current management and members of our Board of Directors and may thereby affect the price of our common stock.

In connection with the MHR financing transaction in 2005, and after approval by our Board of Directors, Dr. Mark H. Rachesky was appointed to the Board of Directors by MHR (the MHR Nominee) and Dr. Michael Weiser was appointed to the Board of Directors by both the majority of our Board of Directors and MHR (the Mutual Director), as contemplated by our bylaws and certificate of incorporation. Our certificate of incorporation provides that the MHR Nominee and the Mutual Director may be removed only by the affirmative vote of at least 85% of the shares of common stock outstanding and entitled to vote at an election of directors. Our certificate of incorporation also provides that the MHR Nominee may be replaced only by an individual designated by MHR unless the MHR Nominee has been removed for cause, in which case the MHR Nominee may be replaced only by an individual approved by both a majority of our Board of Directors and MHR. Furthermore, certain amendments to the bylaws and the certificate of incorporation provide that the rights granted to MHR by these amendments may not be amended or repealed without the unanimous vote or unanimous written consent of the Board of Directors. The amendments to the bylaws and the certificate of incorporation will remain in effect as long as MHR holds at least 2% of the shares of fully diluted Common Stock. The amendments to the bylaws and the certificate of incorporation will have the effect of making it more difficult for a third party to gain control of our Board of Directors.

Additional provisions of our certificate of incorporation and bylaws could have the effect of making it more difficult for a third party to acquire a majority of our outstanding voting common stock. These include provisions that classify our Board of Directors, limit the ability of stockholders to take action by written consent, call special meetings, remove a director for cause, amend the bylaws or approve a merger with another company. We are subject to the provisions of Section 203 of the Delaware General Corporation Law which prohibits a publicly-held Delaware corporation from engaging in a business combination with an interested stockholder for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner. For purposes of Section 203, a business combination includes a merger, asset sale or other transaction resulting in a financial benefit to the interested stockholder is a person who, either alone or together with affiliates and associates, owns (or within the past three years, did own) 15% or more of the corporation s voting stock.

Our stock price has been and may continue to be volatile.

The trading price for our common stock has been and is likely to continue to be highly volatile. The market prices for securities of drug delivery, biotechnology and pharmaceutical companies have historically been highly volatile.

Factors that could adversely affect our stock price include:

fluctuations in our operating results;

announcements of partnerships or technological collaborations and announcements of the results or further actions in respect of any partnerships or collaborations, including termination of same;

innovations or new products by us or our competitors;

governmental regulation;

developments in patent or other proprietary rights;

public concern as to the safety of drugs developed by us or others;

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the results of pre-clinical testing and clinical studies or trials by us, our partners or our competitors;

litigation;

general stock market and economic conditions;

number of shares available for trading (float); and

inclusion in or dropping from stock indexes.

24

As of December 31, 2016, our 52-week high and low closing market price for our common stock was \$0.87 and \$0.47, respectively.

Future sales of common stock or warrants, or the prospect of future sales, may depress our stock price.

Sales of a substantial number of shares of common stock or warrants, or the perception that sales could occur, could adversely affect the market price of our common stock. Additionally, as of December 31, 2016, there were outstanding options to purchase up to 5,180,157 shares of our common stock that are currently exercisable. As of December 31, 2016, 48,868,640 shares of our common stock were issuable upon the conversion of outstanding convertible notes. As of December 31, 2016, there were outstanding warrants to purchase 25,008,082 shares of our stock. The holders of these convertible securities have an opportunity to profit from a rise in the market price of our common stock with a resulting dilution in the interests of the other shareholders. The existence of these securities may adversely affect the terms on which we may be able to obtain additional financing. The weighted average exercise price of issued and outstanding options is \$0.67 and the weighted average exercise price of warrants is \$0.50, which compares to the \$0.60 market price at closing on December 31, 2016. Additionally, there may be additional shares available on the market if we are required to file additional re-sale registration statements on Form S-1, including if MHR exercises its registration rights under its Registration Rights Agreement with the Company dated September 26, 2005.

Because the Company s common stock is on the OTCQB tier of the OTC Markets, the volume of shares traded and the prices at which such shares trade may result in lower prices than might otherwise exist if our common stock was traded on a national securities exchange.

The Company s shares are traded on the OTCQB tier of the OTC Markets. Stock traded on the OTCQB tier of the OTC Markets is often less liquid than stock traded on national securities exchanges, not only in terms of the number of shares that can be bought and sold at a given price, but also in terms of delays in the timing of transactions and reduced coverage of the Company by security analysts and media. This may result in lower prices for the Company s common stock than might otherwise be obtained if the common stock were traded on a national securities exchange, and may also result in a larger spread between the bid and asked prices for the Company s common stock. There is no guarantee that the Company will ever be able to re-list its common stock on the NASDAQ Capital Market or any other market.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

In November 2012, we entered into a sub-lease agreement with New American Therapeutics, Inc. to lease approximately 4,100 square feet of office space at 4 Becker Farm Road, Suite 103, Roseland, New Jersey, for use as our corporate office beginning February 1, 2013. The sub lease for this corporate office expired on June 30, 2014.

In December 2012, we entered into a lease agreement with 4 Becker SPE LLC to initially lease approximately 2,000 square feet adjacent to the sub-lease office space beginning in December 2012. Upon expiration of the above referenced sub-lease on June 30, 2014, that approximately 4,100 square feet will become additional premises included in this lease agreement. This lease for our corporate office is set to expire on June 30, 2017.

ITEM 3. LEGAL PROCEEDINGS None.

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

The Company s securities began trading on the OTCQB, an electronic quotation service maintained by the Financial Industry Regulatory Authority, effective with the open of business on Tuesday, June 9, 2009. The Company s trading symbol has remained EMIS, however, it is our understanding that, for certain stock quote publication websites, and investors may be required to key EMIS.QB to obtain quotes.

The following table sets forth the range of high and low intra-day sale prices as reported by the OTCQB, electronic quotation service for each period indicated:

	High	Low
2015		
First quarter	0.85	0.22
Second quarter	0.69	0.35
Third quarter	0.90	0.42
Fourth quarter	0.75	0.50
2016		
First quarter	0.70	0.46
Second quarter	0.91	0.51
Third quarter	0.80	0.60
Fourth quarter	0.72	0.57
2017		
First quarter (through March 1, 2017)		0.40

As of March 1, 2017 there were 192 stockholders of record, including record owners holding shares on behalf of an indeterminate number of beneficial owners, and 60,687,478 shares of common stock outstanding. The closing price of our common stock on March 1, 2017, was \$0.48. We have never paid cash dividends and do not intend to pay cash dividends in the foreseeable future. We intend to retain earnings, if any, to finance the growth of our business.

Equity Compensation Plan Information

The following table provides information as of December 31, 2016, about the common stock that may be issued upon the exercise of options granted to employees, consultants or members of our board of directors under all of our existing equity compensation plans, including the 2000 Stock Option Plan, the 2002 Broad Based Plan, the 2007 Stock Award and Incentive Plan, (collectively the Plans), the Stock Incentive Plan for Outside Directors, and the Directors Deferred Compensation Plan:

Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options	(b) Weighted Average Exercise Pr of Outstand Options	Equity Compensation Plans ice (Excluding Securities ing Reflected in Column
Equity Compensation Plans Approved by		-	
Security Holders			
The Plans	6,386,833	\$ 0.	67 2,896,683
Stock Incentive Plan for Outside Directors			
Total	6,386,833	\$ 0.	67 2,896,683

ITEM 6. SELECTED FINANCIAL DATA

The following selected financial data for the years ended December 31, 2016, 2015, 2014, 2013, and 2012 have been derived from the financial statements of Emisphere and notes thereto, which have been audited by our independent registered public accounting firm.

		Yea	r Ended December 3	31,	
	2016	2015	2014	2013	2012
			inds, except per sha		
Net revenue	\$ 1,195	\$ 411	\$	\$	\$
Cost of goods sold	286	201			
Write-off of slow moving inventory	1,214	691			
Gross profit (loss)	(305)	(481)			
Costs and expenses					
Research and development expenses	373	475	1,128	836	1,867
General and administrative expenses	5,228	5,950	5,968	6,749	4,935
Selling expenses	1,923	11,176	2,194		
Other costs and expenses	12	14	15	19	19
Total costs and expenses	7,536	17,615	9,305	7,604	6,821
Operating loss	(7,841)	(18,096)	(9,305)	(7,604)	(6,821)
Other Income	15	12	10	81	45
Research and development tax credit					
Change in fair value of derivative instruments	9,138	(13,916)	(11,872)	(8,433)	8,110
Interest expense related party, net	(11,353)	(8,966)	(6,232)	(4,955)	(6,236)
Income (loss) before income tax benefit	(10,041)	(40,966)	(27,399)	(20,911)	(4,902)
Income tax benefit (expense)		585	2,019	(28)	2,974
Net income (loss)	(10,041)	(40,381)	(25,380)	(20,939)	(1,928)
Net income (loss) per share basic	(0.17)	(0.67)	(0.42)	(0.35)	(0.03)
Net income (loss) per share diluted	(0.17)	(0.67)	(0.42)	(0.35)	(0.03)

	2016	2015	December 31, 2014 (In thousands)	2013	2012
Balance Sheet Data:					
Cash, cash equivalents	\$ 6,085	\$ 12,898	\$ 3,683	\$ 4,053	\$ 1,484
Working capital (deficit)	(3,165)	(7,081)	(1,694)	(1,398)	(34,745)
Total assets	6,584	15,810	5,988	4,979	2,176
Derivative instruments	43,194	47,966	29,920	15,909	2,089
Long-term liabilities and deferrals	123,411	109,788	86,172	74,146	31,614
Accumulated deficit	(564,561)	(554,520)	(514,139)	(488,759)	(467,820)
Stockholders deficit	(161,408)	(151,918)	(111,950)	(86,801)	(66,066)

ITEM 7. *MANAGEMENT S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS* Management s Discussion and Analysis of Financial Conditions and Results of Operations (MD&A) is provided to supplement the accompanying financial statements and notes incorporated herein to help provide an understanding of our financial condition, changes in our financial condition and results of operations. To

supplement its audited financial statements presented in accordance with US GAAP, the company is providing a comparison of operating results describing net income and operating expenses which removed certain non-cash and one-time or nonrecurring charges and receipts. The Company believes that this presentation of net income and operating expense provides useful information to both management and investors concerning the approximate impact of the items above. The Company also believes that considering the effect of these items allows management and investors to better compare the Company s financial performance from period to period and to better compare the Company s financial performance with that of its competitors. The presentation of this additional information is not meant to be considered in isolation of, or as a substitute for, results prepared in accordance with US GAAP.

CAUTION CONCERNING FORWARD-LOOKING STATEMENTS

The following discussion and analysis contain forward-looking statements that involve risks and uncertainties. When used in this Report, the words, intend, anticipate, believe, estimate, plan, expect and similar expressions as they relate to us are included to identify forward-look statements. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of factors, including those set forth under Item 1A. Risk Factors (above) and elsewhere in this Report. This discussion and analysis should be read in conjunction with the Selected Financial Data and the Financial Statements and notes thereto included in this Report.

Overview

Emisphere Technologies, Inc. is a commercial stage pharmaceutical and drug delivery company. We are in partnership with global pharmaceutical companies to develop new formulations of existing products, as well as new chemical entities, using our Eligen[®] Technology. We launched our first prescription medical food product, oral Eligen B12 in the U.S. in March 2015, and we are engaged in strategic discussions to optimize its economic value in the U.S. and global markets. Beyond Eligen B12 , we utilize our proprietary Eligen Technology to create new oral formulations of therapeutic agents. Our product pipeline includes prescription drug and medical food product candidates that are being developed in partnership or internally. Our core business strategy is to build new, high-value partnerships and continue to expand upon existing partnerships, optimize Eligen B12 s economic value, evaluate commercial opportunities for new prescription medical foods, and promote new uses for our Eligen[®] Technology.

Eligen[®] Technology

We are continuing to develop and expand upon the unique and improved delivery of therapeutic molecules using our Eligen[®] Technology. These molecules could be currently available or under development. Such molecules are usually delivered by injection; and, in many cases, their benefits are limited due to poor bioavailability, slow on-set of action or variable absorption. In those cases, our technology may increase the benefit of the therapy by improving bioavailability or absorption or by decreasing time to onset of action. The Eligen[®] Technology can be applied to the oral route of administration as well as other delivery pathways, such as buccal, rectal, inhalation, intra-vaginal or transdermal. The Eligen[®] Technology makes it possible to deliver certain therapeutic molecules orally without altering their chemical form or biological activity. Eligen[®] delivery agents, or carriers , facilitate or enable the transport of therapeutic molecules across the mucous membranes of the gastrointestinal tract, to reach the tissues of the body where they can exert their intended pharmacological effect. Our development efforts are conducted internally or in collaboration with corporate development partners. Typically, the drugs that we target are at an advanced stage of development, or have already received regulatory approval, and are currently available on the market.

Eligen® Technology License Agreements

Our most advanced collaborative partner, Novo Nordisk, is using our Eligen[®] Technology in combination with semaglutide, one of its proprietary GLP-1 receptor agonists, and its insulins. During 2015, Novo Nordisk initiated a global Phase 3a development program with oral semaglutide, a once daily oral formulation of the long-acting GLP-1 analog for the treatment of Type 2 diabetes, using our absorption-enhancing carrier, monosodium

N-[8-(2-hydroxybenzoyl) amino] caprylate (our SNAC carrier). Novo Nordisk initiated ten clinical trials containing approximately 9,300 patients with Type-2 diabetes in its global Phase 3a program. Novo Nordisk s decision to initiate this global phase 3a program follows encouraging results from the proof of concept Phase 2 program and consultations with regulatory authorities. In February 2016, Novo Nordisk initiated the first Phase 3a trial of oral semaglutide combined with our SNAC carrier. Novo Nordisk has now initiated all 10 clinical trials, including PIONEER 6 (a pre-approval long term cardiovascular outcomes trial in approximately 3,100 subjects), PIONEER 8 (an insulin add-on trial in approximately 700 subjects), PIONEER 9 (a monotherapy trial in approximately 200 subjects) and PIONEER 10 (an oral anti-diabetic combination trial in approximately 300 subjects). The advancement of oral semaglutide into Phase 3a development represents a significant milestone for our Eligen[®] Technology platform and supports our belief that products developed using our carriers have the potential to overcome bioavailability challenges commonly associated with the oral administration of peptides and certain other compounds.

In June 2008, Novo Nordisk and Emisphere entered into the GLP-1 Development and License Agreement (the GLP-1 License Agreement) under which Novo Nordisk acquired the right to develop and commercialize oral formulations of its GLP-1 analogs using the Eligen[®] Technology. Under the GLP-1 License Agreement, we are eligible to receive product development and sales milestone payments, and royalties on sales in the event Novo Nordisk commercializes products developed under this agreement. In October 2015, we amended the GLP-1 License Agreement to provide for, among other things, a payment of \$9.0 million to us from Novo Nordisk as prepayment of a product development milestone in exchange for a reduction in certain future royalty payments.

During October 2015, we also entered into a new Development and License Agreement with Novo Nordisk (the Expansion License Agreement) to develop and commercialize oral formulations of four classes of Novo Nordisk s investigational molecules targeting major metabolic disorders, including diabetes and obesity, using our oral Eligen® Technology. Under the terms of the Expansion License Agreement, we licensed to Novo Nordisk the exclusive right to develop potential product candidates in three molecule classes, and the non-exclusive right to develop potential product candidates in a fourth molecule class, using the Eligen® Technology. Pursuant to the Expansion License Agreement, we received a \$5.0 million upfront licensing fee, and are eligible to receive up to \$62.5 million in development and sales milestone payments for each of the three exclusively licensed molecule classes, and up to \$20 million in development milestone payments for the non-exclusively licensed molecule class. Additionally, we are eligible to receive royalties on sales of each successfully commercialized product. Novo Nordisk is solely responsible for the development and commercialization of all product candidates. In addition, Emisphere granted Novo Nordisk the option to obtain exclusive and non-exclusive rights to develop and commercialize oral formulations of additional investigational molecules for the treatment of diabetes, obesity, and indications in other important therapeutic areas using the Eligen® Technology. If Novo Nordisk exercises its option to develop and commercialize any additional investigational molecules, we would be entitled to receive an additional payment upon the exercise of each option for exclusive or non-exclusive development rights for each molecule class. We are eligible to receive up to \$62.5 million in development and sales milestone payments for each additional exclusively licensed molecule class, and up to \$20 million in development milestone payments for each additional non-exclusively licensed molecule class, plus royalties on sales of each commercialized product. The agreement remains in effect, on a country-by-country basis, for the longer of 10 years from the date of first sale of a licensed product in such country, or the date of expiration of the last-to-expire patent covered by the agreement in such country. Novo Nordisk may terminate this agreement with 90 days prior notice. We may terminate this agreement in the event that Novo Nordisk challenges the validity of any licensed patent under the agreement, but only with respect to the patents belonging to the patent family of the challenged patent. Either party may also terminate the agreement upon the other party s material breach, if not cured within a specified period of time. Upon a termination of the agreement by Emisphere for Novo Nordisk s breach, all intellectual property rights conveyed under the agreement shall revert back to us.

During December 2010, Novo Nordisk also licensed the right to develop and commercialize oral formulations of its insulins using our Eligen[®] Technology.

We have also collaborated with Novartis AG in connection with the development and testing of oral formulations of several drug candidates. Novartis has the right to evaluate the feasibility of using our Eligen[®] Technology with two new compounds to assess the potential for new product development opportunities. If Novartis chooses to develop oral formulations of these new compounds using the Eligen[®] Technology, the parties will negotiate additional agreements. In that case, we could be entitled to receive development milestone and royalty payments in connection with the development and commercialization of these potentially new products. We will continue to concentrate on expanding our Eligen[®] drug delivery technology business by seeking applications with prescription molecules obtained through partnerships with other pharmaceutical companies for molecules where oral absorption is difficult yet substantially beneficial if proven. We are also working to generate new interest in the Eligen[®] Technology with potential partners and attempting to expand our current collaborative relationships to take advantage of the critical knowledge that others have gained by working with our technology. Finally, we continue to pursue commercialization of product candidates developed internally. We believe that these internal candidates need to be developed with reasonable investment in an acceptable time period and with a reasonable risk-benefit profile.

Oral Eligen B12 Rx

We are evaluating potential strategic transactions and collaborations with third parties for oral Eligen B12 Rx, which we launched in the U.S. in March 2015. Oral Eligen B12 Rx is the first and only once-daily oral prescription medical food tablet shown to normalize B12 levels without the need for an injection. Medical foods are a distinct product category defined by the Orphan Drug Act of 1988 and an FDA regulation, and encompass foods which are formulated to be consumed or administered enterally under the supervision of a physician and which are intended for the specific dietary management of a disease or condition for which distinctive nutritional requirements, based on recognized scientific principles, are established by medical evaluation. Eligen B12 meets significant unmet patient and medical needs by combining vitamin B12 with our Eligen[®] technology. Eligen B12 Rx is indicated for the dietary management of patients who have a medically-diagnosed vitamin B12 deficiency, associated with a disease or condition that cannot be managed by a modification of the normal diet alone. Eligen B12 is the first prescription product to market using an Eligen[®] carrier, SNAC, to chaperone B12 through the gastric lining and directly into the bloodstream independent of intrinsic factor, a protein made in the stomach that normally facilitates B12 absorption.

During the fourth quarter of 2010, we completed a clinical trial which demonstrated that both oral Eligen B12 Rx (1000 mcg) and injectable B12 (current standard of care) can efficiently and quickly restore normal Vitamin B12 levels in deficient individuals. The manuscript summarizing the results from that clinical trial was published in the July 2011 edition of the journal *Clinical Therapeutics* (Volume 22, pages 934 945). We also conducted market research to help assess the potential commercial opportunity for our oral Eligen B12 Rx (1000 mcg) product.

Vitamin B12 is an important nutrient that is poorly absorbed in the oral form. In most healthy people, Vitamin B12 is absorbed in a receptor-mediated pathway in the presence of an intrinsic factor. A large number of people take oral B12 supplements, many in mega-doses, and by injection. Currently, it is estimated that at least five million people in the U.S. are taking 40 million injections of Vitamin B12 per year to treat a variety of debilitating medical conditions. Another estimated five million people are consuming more than 600 million tablets of Vitamin B12 orally. The international market is larger than the U.S. market. Many B12 deficient patients suffer from pernicious anemia and neurological disorders and many of them are infirm or elderly. Vitamin B12 deficiency can cause severe and irreversible damage, especially to the brain and nervous system. At levels only slightly lower than normal, a variety of symptoms such as fatigue, depression, and poor memory may occur.

Development-stage product candidates incorporating our Eligen[®] technology are in earlier or preclinical research phases, and we continue to assess them for their compatibility with our technology and market need. Our intent is to seek partnerships with pharmaceutical and biotechnology companies for certain of these products as we continue to expand our pipeline with product candidates that demonstrate significant opportunities for growth. Our focus is on molecules that meet the criteria for success based on our increased understanding of our Eligen[®] Technology and prescription medical foods. Our preclinical programs focus on the development of oral

formulations of potentially new treatments for diabetes and products in the areas of cardiovascular, appetite suppression and pain and on the development and potential expansion of nutritional supplement products.

To support our internal development programs, we implemented our commercialization strategy for the Eligen[®] Technology. Using extensive safety data available for our carrier, we obtained GRAS (Generally Recognized as Safe) status for SNAC, and then applied the Eligen[®] Technology with B12, another GRAS substance where bioavailability and absorption is difficult and improving such absorption would yield substantial benefit and value. Given sufficient time and resources, we intend to apply this strategy to develop other products. Examples of GRAS substances that may be developed into additional commercial products using this strategy include vitamins such as other B Vitamins, minerals such as iron, and other supplements such as the polyphenols and catechins, among others. We hope to expand our product portfolio globally with collaborative partners in different geographic markets.

Our website is <u>www.emisphere.com</u>. The contents of that website are not incorporated herein by reference. Investor related questions should be directed to <u>info@emisphere.com</u>.

Funding required to continue developing our product pipeline may be partially paid by income generated from license arrangements whose value tends to increase as product candidates move from pre-clinical into clinical development. It is our intention that investments that may be required to fund our research and development will be approached incrementally in order to minimize disruption or dilution. The Company also continues to focus on improving operational efficiency. Our cash burn rate to support continuing operations is less than \$4 million per year. Additionally, we have accelerated the commercialization of the Eligen[®] Technology in a cost effective way and to gain operational efficiencies by tapping into advanced scientific processes offered by independent contractors.

Liquidity and Capital Resources

Since our inception in 1986, we have generated significant losses from operations and we anticipate that we will continue to generate significant losses from operations for the foreseeable future.

As of December 31, 2016, our accumulated deficit was approximately \$564.6 million. Our loss from operations was \$7.8 million, \$18.1 million and \$9.3 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net loss was \$10.0 million, \$40.4 million and \$25.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net cash outlays from operations were \$6.8, \$2.8 million and \$8.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our stockholders deficit was \$161.4 million and \$151.9 million as of December 31, 2016 and 2015, respectively. On December 31, 2016 we had approximately \$6.1 million in cash.

As of December 31, 2016, the Company s obligations included approximately \$53.0 million (face value) under its Second Amended and Restated Convertible Notes (the Convertible Notes) issued to funds affiliated with MHR Fund Management LLC (collectively, MHR), approximately \$26.0 million (face value) under a loan agreement entered into on August 20, 2014 (the Loan Agreement) with MHR, approximately \$0.8 million (face value) under its Second Amended and Restated Reimbursement Notes (the Reimbursement Notes) issued to MHR, and approximately \$2.4 million (face value) under its Second Amended and Restated Bridge Notes (the Bridge Notes) issued to MHR.

On October 26, 2015, we received a total payment of \$14 million from Novo Nordisk pursuant to, and consisting of, \$5 million as payment for entry into the Expansion License Agreement and \$9 million as prepayment of a product development milestone and in exchange for a reduction in certain future royalty payments that may have become due and payable under the terms of the GLP-1 Development License Agreement.

Under terms of its loan agreements, the Company is obligated to pre-pay certain loans and notes using 50% of any extraordinary receipts, such as the \$14 million received from Novo Nordisk. On December 8, 2016, we entered into various agreements whereby, among other things, MHR agreed to waive any event of default resulting from our failure to satisfy the net sales milestones for the Eligen B12 product for the 2016 fiscal year and all future periods specified in our Loan Agreement and Convertible Notes. MHR also agreed to irrevocably

waive the Company s obligation to pre-pay \$7 million of certain loans and notes resulting from the \$14 million cash receipt from Novo Nordisk.

We believe that our current cash balance will provide sufficient capital to continue operations through approximately March 2018. The Company s future capital requirements beyond March 2018 and its financial success depend largely on its ability to raise additional capital, including by leverage existing and securing new partnering opportunities for Eligen B12 and for the Eligen technology.

While our plan is to raise capital from commercial operations and/or product partnering opportunities to address our capital deficiencies and meet our operating cash requirements, there is no assurance that our plans will be successful. If we fail to generate sufficient capital from commercial operations or partnerships, we will need to seek capital from other sources and risk default under the terms of our existing loans. We cannot assure you that financing will be available on favorable terms or at all. If we fail to generate sufficient additional capital from sales of oral Eligen B12 or obtain substantial cash inflows from existing or new partners or other sources prior to March 2018, we could be forced to cease operations. Additionally, if additional capital is raised through the sale of equity or convertible debt securities, the issuance of such securities would result in dilution to our existing stockholders. These conditions raise substantial doubt about our ability to continue as a going concern. Consequently, the audit reports prepared by our independent registered public accounting firm relating to our financial statements for the years ended December 31, 2016, 2015 and 2014 include an explanatory paragraph expressing substantial doubt about our ability to continue as a going concern. Furthermore, despite our optimism regarding the Eligen® Technology, even in the event that the Company is adequately funded, there is no guarantee that any of our products or product candidates will perform as hoped or that such products can be successfully commercialized.

During the year ended December 31, 2016, our cash liquidity (consisting of \$6.1 million cash at December 31, 2016) decreased as follows:

Cash and Cash Equivalents:

	(In t	housands)
At December 31, 2015	\$	12,900
At December 31, 2016		6,100
Decrease in cash and cash equivalents	\$	6,800

The (decrease) increase in cash and cash equivalents is comprised of the following components for the years ended December 31, 2016 and 2015:

	2016 (In tho	2015 ousands)
Proceeds from loan	\$	\$ 12,000
Proceeds from collaboration, technology business tax certificate transfer program and other projects		14,600
Sources of cash and cash equivalents		26,600
Uses of cash and cash equivalents	(6,800)	(17,400)
(Decrease) increase in cash and cash equivalents	\$ (6,800)	\$ 9,200

During the year ended December 31, 2016, our working capital deficiency decreased by \$3.9 million as follows:

	Decen	December 31,		
	2016	2015	Change	
	(In the	ousands)		
Current assets	\$ 6,560	\$ 15,774	\$ (9,214)	
Current liabilities	9,725	22,855	(13,130)	
Working capital (deficiency)	\$ (3,165)	\$ (7,081)	\$ 3,916	

The decrease in current assets is driven primarily by the decrease in cash of \$6.8 million and the decrease in inventory of \$1.3 million. The decrease in current liabilities is driven primarily by the decrease in fair value of derivative instruments of \$4.6 million, the decrease of accounts payable and accrued expenses of \$1.3 million and the decrease of \$7.0 in the classification of current notes payables. The decrease in current notes payable is a result of the Company entering into a series of agreements with MHR on December 8, 2016 whereby, among other things, MHR waived the Company s obligation to pre-pay \$0.8 million of the Reimbursement Notes and \$6.2 million of the Loans in connection with the \$14 million of cash proceeds from Novo Nordisk on October 26, 2015.

Results of Operations

Year Ended December 31, 2016, Compared to Year Ended December 31, 2015

	Year Ended December 31, (In thousands)		
	2016	2015	Change
Net revenue	\$ 1,195	\$ 411	\$ 784
Gross profit (loss)	\$ (305)	\$ (481)	\$ 176
Operating expenses	\$ 7,536	\$ 17,615	\$ (10,079)
Operating loss	\$ (7,841)	\$ (18,096)	\$ 10,255
Change in fair value of derivative instruments	\$ 9,138	\$ (13,916)	\$ 23,054
Interest expense	\$ (11,353)	\$ (8,966)	\$ (2,387)
Other non-operating income	\$ 15	\$ 12	\$ 3
Income tax benefit	\$	\$ 585	\$ (585)
Net loss	\$ (10,041)	\$ (40,381)	\$ 30,340

Our principal operating costs include the following items as a percentage of total expense:

	Year Ended		
	December 31, 2016	December 31, 2015	
Human resource costs, including benefits	35%	18%	
Professional fees for legal, intellectual property, accounting and			
consulting	26%	15%	
Advertising and promotion	18%	58%	
Clinical costs	4%	2%	
Occupancy costs	2%	1%	
Other	15%	6%	

Operating expenses, decreased by \$10.1 million or 57% as a result of the following items:

	(In thousands)
Decrease in human resource costs	\$ (483)
Decrease in professional fees	(754)
Decrease in advertising and promotion	(8,766)
Decrease in clinical costs	(149)
Increase in occupancy costs	8
All other	65
Net decrease	\$ (10.079)

Net revenue increased \$0.8 million due to the commercial launch of Eligen B12 product in March 2015 whereas in 2016, the Company had a full year of revenue generated from the sale of Eligen B12 as compared to only ten months in 2015.

Gross loss was (0.3) million for the year ended December 2016 compared to (0.5) million for the year ended December 31, 2015. The decrease in the gross profit (loss) was primarily due to an increase in the selling price of our Eligin B12 offset by an increase in a write-off of inventory of approximately 0.6 million due to obsolescence.

Human resource costs decreased approximately \$0.5 million due primarily to a reduction in staff related to our chief financial officer, chief medical officer and other administrative staff.

Professional fees decreased approximately \$0.8 million due primarily to a decrease in consulting costs including medical regulatory, regulatory and manufacturing support in connection with the introduction of oral Eligen B12 in the U.S. during March 2015.

Advertising and promotion decreased approximately \$8.8 million due primarily to a reduction in sales, marketing and other commercial costs commensurate with our decision to phase out our sales field force, and reduce and reallocate marketing resources toward more efficient non-field force promotion of the oral Eligen B12 product in the U.S. during 2016.

Clinical costs decreased approximately \$0.1 million primarily due to costs associated with developing and optimizing manufacturing production of oral Eligen B12 Rx.

Occupancy costs were substantially unchanged in 2016 compared to 2015.

All other operating costs increased approximately \$0.1 million primarily due to a \$0.1 million forfeited deposit in connection with a commitment to purchase inventory.

As a result of the factors above, Emisphere s operating expenses were \$7.5 million for the year ended December 31, 2016, which represents a decrease of \$10.1 million (57%) compared to operating expenses for the year ended December 31, 2015.

Other non-operating expense decreased by approximately \$20.7 million for the year ended December 31, 2016, in comparison to the same period last year due primarily to a \$23.1 million decrease in the change in the value of derivative instruments, and a \$2.4 million increase in interest expense due to an increase in the principal balance of our outstanding debt. The change in the fair value of derivative instruments for 2016 and 2015 is the result of a lower fair value of the Company s stock price and a shorter term at December 31, 2016 compared to December 31, 2015. Future gains and losses recognized in the Company s operating results from changes in the value of the derivative instrument liability are based in part on the fair value of the Company s common stock which is outside the control of the Company. These potential future gains and losses could be material.

As a result of the above factors, we reported a net loss of \$10.0 million, which was \$30.3 million (75%) lower than the net loss of \$40.4 million for the year ended December 31, 2015.

Year Ended December 31, 2015, Compared to Year Ended December 31, 2014

	Year Ended December 31, (In thousands)		
	2015	2014	Change
Net revenue	\$ 411	\$	\$ 411
Gross profit (loss)	\$ (481)	\$	\$ (481)
Operating expenses	\$ 17,615	\$ 9,305	\$ 8,310
Operating loss	\$ (18,096)	\$ (9,305)	\$ (8,791)
Change in fair value of derivative instruments	\$ (13,916)	\$ (11,872)	\$ (2,044)
Interest expense	\$ (8,966)	\$ (6,232)	\$ (2,734)
Other non-operating income	\$ 12	\$ 10	\$ 2
Income tax benefit	\$ 585	\$ 2,019	\$ (1,434)
Net loss	\$ (40,381)	\$ (25,380)	\$ (15,001)

Our principal operating costs include the following items as a percentage of total expense:

	Year Ended		
	December 31, 2015	December 31, 2014	
Human resource costs, including benefits	18%	32%	
Professional fees for legal, intellectual property, accounting and			
consulting	15%	34%	
Sales and marketing costs, excluding human resource costs	58%	16%	
Product development costs	2%	7%	
Occupancy costs	1%	2%	
Other	6%	9%	

Operating expenses, increased by \$8.3 million or 89% as a result of the following items:

	(In t	housands)
Increase in human resource costs	\$	175
Decrease in professional and consulting fees		(480)
Increase in sales and marketing costs, excluding human resource costs		8,690
Increase in product development costs		(222)
Increase in occupancy costs		3
All other		144
Net increase	\$	8,310

Net revenue increased \$0.4 million due to the commercial launch of Eligen B12 in the U.S.

Gross profit (loss) was \$(0.5) million due primarily to the write-off of approx. \$0.7 million Eligen B12 inventory due to obsolescence.

Human resource costs increased approximately \$0.2 million due primarily to hiring our new Chief Medical Officer.

Professional and consulting fees decreased approximately \$0.5 million due to reductions in legal fees and research costs.

Sales and marketing costs, excluding human resource costs increased \$8.7 million due to the commercial launch of Eligen B12 during March 2015.

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Product development costs decreased approximately \$0.2 million primarily due to costs associated with developing and optimizing manufacturing production of oral Eligen B12 Rx.

Occupancy costs were substantially unchanged in 2015 compared to 2014.

All other operating costs increased approximately \$0.1 million.

As a result of the factors above, Emisphere s operating expenses were \$17.6 million for the year ended December 31, 2015, which represents an increase of \$8.3 million (89%) compared to operating expenses for the year ended December 31, 2014.

Other non-operating expense increased by approximately \$4.8 million for the year ended December 31, 2015, in comparison to the same period last year due primarily to a \$2.0 million increase in the change in the value of derivative instruments, and a \$2.7 million increase in interest expense due primarily to the additional accrued interest on the restatement of the Convertible Notes following the August 2014 restructuring described above. The change in the fair value of derivative instruments for 2015 and 2014 is the result of a higher fair value of the Company s stock price and a higher estimated future volatility at December 31, 2015 compared to December 31, 2014. Future gains and losses recognized in the Company s operating results from changes in value of the derivative instrument liability are based in part on the fair value of the Company s common stock which is outside the control of the Company. These potential future gains and losses could be material.

During 2015, we recognized a state income tax benefit of approximately \$0.6 million as a result of proceeds from the sale of \$7.1 million of New Jersey net operating losses through the Technology Business Certificate Transfer Program, sponsored by the New Jersey Economic Development Authority.

As a result of the above factors, we reported a net loss of \$40.4 million, which was \$15.0 million (59%) higher than the net loss of \$25.4 million for the year ended December 31, 2014.

Critical Accounting Estimates and New Accounting Pronouncements

Critical Accounting Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the U.S. requires management to make estimates and assumptions that affect reported amounts and related disclosures in the financial statements. Management considers an accounting estimate to be critical if:

It requires assumptions to be made that were uncertain at the time the estimate was made, and

Changes in the estimate or different estimates that could have been selected could have a material impact on our results of operations or financial condition.

Share-Based Payments We recognize expense for our share-based compensation in accordance with FASB ASC 718, *Compensation-Stock Compensation*, which establishes standards for share-based transactions in which an entity receives employee s services for (a) equity instruments of the entity, such as stock options, or (b) liabilities that are based on the fair value of the entity s equity instruments or that may be settled by the issuance of such equity instruments. FASB ASC 718 requires that companies expense the fair value of stock options and similar awards, as measured on the awards grant date. FASB ASC 718 applies to all awards granted after the date of adoption, and to awards modified, repurchased or cancelled after that date.

We estimate the value of stock option awards on the date of grant using the Black-Scholes-Merton (Black-Scholes) option-pricing model. The determination of the fair value of share-based payment awards on the date of grant is affected by our stock price as well as assumptions regarding a number of complex and subjective variables. These variables include our expected stock price volatility over the term of the awards, expected term, risk-free interest rate, expected dividends and expected forfeiture rates.

If factors change and we employ different assumptions in the application of FASB ASC 718 in future periods, the compensation expense that we record under FASB ASC 718 may differ significantly from what we have recorded in the current period. There is a high degree of subjectivity involved when using option pricing models to estimate share-based compensation under FASB ASC 718. Consequently, there is a risk that our estimates of the fair values of our share-based compensation awards on the grant dates may bear little resemblance to the actual values realized upon the exercise, expiration, early termination or forfeiture of those share-based payments in the future. Employee stock options may expire worthless or otherwise result in zero

intrinsic value as compared to the fair values originally estimated on the grant date and reported in our financial statements. Alternatively, value may be realized from these instruments that are significantly in excess of the fair values originally estimated on the grant date and reported in our financial statements. During the year ended December 31, 2016, we do not believe that reasonable changes in the projections would have had a material effect on share-based compensation expense.

Revenue Recognition We recognize revenue in accordance with FASB ASC 605-10-S99, Revenue Recognition. We sell our Oral Eligen B12 Rx product through drug wholesalers and retail pharmacies. We recognize revenue from prescription product sales, net of sales discounts, chargebacks, and rebates. We accept returns of unsalable product from customers within a return period of six months prior to and 12 months following product expiration. Our Oral Eligen B12 Rx product currently has a shelf life of 36 months from the date of manufacture. Given the limited history of our Oral Eligen B12 Rx product, we currently cannot reliably estimate expected returns of the prescription products at the time of shipment. Accordingly, we defer recognition of revenue on prescription products until the right of return no longer exists, which occurs at the earlier of the time the Oral Eligen B12 Rx product is dispensed through patient prescriptions or expiration of the right of return.

Revenue includes amounts earned from sales of our oral Eligen® B12 (100 mcg) product, collaborative agreements and feasibility studies. Revenue earned from the sale of oral Eligen® B12 (100 mcg) was recognized when the product was shipped, when all revenue recognition criteria were met in accordance with Staff Accounting Bulletin No. 104, Revenue Recognition (codified under ASC 605 Revenue Recognition). Revenue from feasibility studies, which are typically short term in nature, is recognized upon delivery of the study, provided that all other revenue recognition criteria are met. Revenue from collaboration agreements are recognized using the proportional performance method provided that we can reasonably estimate the level of effort required to complete our performance obligations under an arrangement and such performance obligations are provided on a best effort basis and based on expected payments. Under the proportional performance method, periodic revenue related to nonrefundable cash payments is recognized as the percentage of actual effort expended to date as of that period to the total effort expected for all of our performance obligations under the arrangement. Actual effort is generally determined based upon actual hours incurred and include research and development (R&D) activities performed by us and time spent for joint steering committee (JSC) activities. Total expected effort is generally based upon the total R&D and JSC hours incorporated into the project plan that is agreed to by both parties to the collaboration. Significant management judgments and estimates are required in determining the level of effort required under an arrangement and the period over which we expect to complete the related performance obligations. Estimates of the total expected effort included in each project plan are based on historical experience of similar efforts and expectations based on the knowledge of scientists for both the Company and its collaboration partners. The Company periodically reviews and updates the project plan for each collaborative agreement. The most recent reviews took place in January 2017. In the event that a change in estimate occurs, the change will be accounted for using the cumulative catch-up method which provides for an adjustment to revenue in the current period. Estimates of our level of effort may change in the future, resulting in a material change in the amount of revenue recognized in future periods.

Generally, under collaboration arrangements, nonrefundable payments received during the period of performance may include time- or performance-based milestones. The proportion of actual performance to total expected performance is applied to the expected payments in determining periodic revenue. However, revenue is limited to the sum of (1) the amount of nonrefundable cash payments received and (2) the payments that are contractually due but have not yet been paid.

With regard to revenue recognition from collaboration agreements, the Company previously interpreted expected payments to equate to total payments subject to each collaboration agreement. On a prospective basis, the Company has revised its application of expected payments to equate to a best estimate of payments. Under this application, expected payments typically include (i) payments already received and (ii) those milestone payments not yet received but that the Company believes are more likely than not of receiving. Our support for the assertion that the next milestone is likely to be met is based on the (a) project status updates discussed at JSC meetings; (b) clinical trial/development results of prior phases; (c) progress of current clinical trial/development phases; (d) directional input of collaboration partners and (e) knowledge and experience of the Company s

scientific staff. After considering the above factors, the Company believes those payments included in expected payments are more likely than not of being received. While this interpretation differs from that used previously by the Company, it does not result in any change to previously recognized revenues in either timing or amount for periods through December 31, 2016.

With regard to revenue recognition in connection with the Insulins License Agreement and the GLP-1 License Agreements with Novo Nordisk, such agreements include multiple deliverables including license grants, several versions of the Company's Eligen Technology (or carriers), support services and manufacturing. Emisphere's management reviewed the relevant terms of the Novo Nordisk agreements and determined such deliverables should be accounted for as a single unit of accounting in accordance with FASB ASC 605-25, Multiple-Element Arrangements since the delivered license and Eligen® Technology do not have stand-alone value and Emisphere does not have objective evidence of fair value of the undelivered Eligen® Technology or the manufacturing value of all the undelivered items. Such conclusion will be reevaluated as each item in the arrangement is delivered. Consequently, any payments received from Novo Nordisk pursuant to such agreements, including the initial \$10 million upfront payment and any payments received for support services in connection with the GLP-1 License Agreement and the \$5 million upfront payment from the Insulins License Agreement will be deferred and included in Deferred Revenue within our balance sheet. Management cannot currently estimate when all of such deliverables will be delivered nor can they estimate when, if ever, Emisphere will have objective evidence of the fair value for all of the undelivered items, therefore all payments from Novo Nordisk are expected to be deferred for the foreseeable future.

As of December 31, 2016, total deferred revenue from Novo Nordisk development programs was \$42.6 million, consisting of: \$32.6 million from the GLP-1 Development License Agreement, comprised of the \$9.0 million prepayment received October 26, 2015, the \$10.0 million prepayment received April 26, 2013, the \$10.0 million non-refundable license fee, \$2 million milestone payment and \$1.6 million in support services; \$5.0 million non-refundable license fee from the Insulin Development License Agreement and \$5.0 million non-refundable license fee from the Expansion License Agreement.

With regard to revenue recognition in connection with Novartis discontinued oral salmon calcitonin program for osteoporosis and osteoarthritis, discontinued oral PTH-1-34 program for osteoporosis, and terminated oral recombinant human growth hormone program: all such agreements include(d) multiple deliverables including license grants, several versions of the Company s Eligen Technology (or carriers) and support services. Emisphere s management reviewed the relevant terms of each development license agreement with Novartis and determined such deliverables should be accounted for as a single unit of accounting in accordance with FASB ASC 605-25, Multiple-Element Arrangements since the delivered license and Eligen® Technology do not have stand-alone value and Emisphere does not have objective evidence of fair value of the undelivered Eligen® Technology. Such conclusion will be reevaluated as each item in the arrangement is delivered or the status of each agreement changes. Consequently, any payments received from Novartis pursuant to such agreements have been deferred and included in Deferred Revenue within our balance sheet.

During 2011, Novartis terminated its oral human growth hormone program and informed the Company of its intention not to continue development of its oral calcitonin and oral PTH programs involving Emisphere s Eligen Technology. However, Novartis did not terminate its development license agreements in calcitonin or PTH. At such time that Novartis terminates its oral calcitonin and oral PTH agreements, , then the Company will recognize revenue in connection with past receipts of payments from Novartis derived from those agreements which are currently included in Deferred Revenue within our balance sheet. Management will pay close attention to Novartis actions and reevaluate circumstances that influence this determination in future.

As of December 31, 2016 total deferred revenue from all Novartis development license programs was approximately \$13.0 million.

Warrants and Conversion Feature of Amended and Restated Convertible Note Warrants issued in connection with various equity financings and embedded conversion feature of the Amended and Restated Convertible Notes, Bridge Notes and Reimbursement Notes described in Note 7 to the Financial Statements have been classified as liabilities due to certain provisions that may require cash settlement in certain circumstances. At each balance sheet date, we adjust the warrants to reflect their current fair value. For derivatives other than the

Amended and Restated Convertible Notes, Bridge Notes, Reimbursement Notes, and June 2010 Warrants, we estimate the fair value of these instruments using the Black-Scholes model which takes into account a variety of factors, including historical stock price volatility, risk-free interest rates, remaining term and the closing price of our common stock. Changes in the assumptions used to estimate the fair value of these derivative instruments could result in a material change in the fair value of the instruments. The fair value of the embedded conversion feature of the Amended and Restated Convertible Notes, Amended and Restated June 2010 Warrants, Amended and Restated Bridge Notes and Amended and Restated Reimbursement Notes contain anti-dilution protection provisions, which are triggered by potentially dilutive events (including subsequent common share offerings meeting certain criteria). Due to these additional protective provisions within the instruments, additional value has been provided to the holders, which has not been provided to other equity investors. In order to estimate the value of this protection, the Company uses the Monte Carlo valuation model which assesses the probability of the occurrence of potential triggering events, such as the probability of the Company s engaging in a capital or debt markets offering to calculate the value of the derivative at the reporting date. We believe the assumptions used to estimate the fair values of the warrants and convertible shares are reasonable. For a more complete discussion on the volatility in market value of derivative instruments, see Part I, Item 7A **Quantitative and Qualitative Disclosures about Market Risk.**

Clinical Trial Accrual Methodology Clinical trial expenses represent obligations resulting from our contracts with various research organizations in connection with conducting clinical trials for our product candidates. We account for those expenses on an accrual basis according to the progress of the trial as measured by patient enrollment and the timing of the various aspects of the trial. Accruals are recorded in accordance with the following methodology: (i) the costs for period expenses, such as investigator meetings and initial start-up costs, are expensed as incurred based on management s estimates, which are impacted by any change in the number of sites, number of patients and patient start dates; (ii) direct service costs, which are primarily on-going monitoring costs, are recognized on a straight-line basis over the life of the contract; and (iii) principal investigator expenses that are directly associated with recruitment are recognized based on actual patient recruitment. All changes to the contract amounts due to change orders are analyzed and recognized in accordance with the above methodology. Change orders are triggered by changes in the scope, time to completion and the number of sites. During the course of a trial, we adjust our rate of clinical expense recognition if actual results differ from our estimates.

New Accounting Pronouncements

In April 2015, the FASB issued ASU 2015-03, Interest Imputation of Interest (ASU 2015-03), which requires that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with debt discounts. The recognition and measurement guidance for debt issuance costs are not affected by the amendments in this ASU. ASU 2015-03 is effective for annual and interim periods beginning on or after December 15, 2015. The adoption of ASU 2015-03 did not have a material impact on our financial position, results of operations or cash flows.

In August 2014, the FASB issued ASU No. 2014-15, Disclosure of Uncertainties About an Entity s Ability to Continue as a Going Concern (ASU 2014-15), which provides guidance on management s responsibility in evaluating whether there is substantial doubt about an entity s ability to continue as a going concern and to provide related footnote disclosures. ASU 2014-15 is effective for the annual period ending after December 15, 2016, and for annual and interim periods thereafter. The adoption of ASU 2014-15 did not have a material impact on our financial position, results of operations or cash flows.

In July 2015, the FASB issued ASU No. 2015-11, Simplifying the Measurement of Inventory (ASU 2015-11). ASU 2015-11 requires that inventory within the scope of the guidance be measured at the lower of cost and net realizable value. Inventory measured using last-in, first-out and retail inventory method are excluded from this new guidance. This ASU replaces the concept of market with the single measurement of net realizable value and is intended to create efficiencies for preparers and more closely aligns U.S. GAAP with IFRS. This ASU is effective for public business entities in fiscal years beginning after December 15, 2016, including interim periods within those years. Prospective application is required and early adoption is permitted

as of the beginning of an interim or annual reporting period. The adoption of ASU 2015-11 is not expected to have a material impact on our financial position, results of operations or cash flows.

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (ASU 2014-09), which requires entities to recognize revenue in a way that depicts the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled to in exchange for those goods or services. The new guidance also requires additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. Adoption can occur using one of two prescribed transition methods. In 2016, the FASB issued four amendments to ASU 2014-09. We have begun a limited evaluation of the provisions of ASU 2014-09 and the impact, if any, it may have on our financial position and results of operations. Our evaluation work to date includes the training of ASU 2014-09, contract review and an assessment of the distribution model for which we recognize revenue for our Eligen B12 products. We have a small number of contracts which require an assessment and believe we have sufficient time for the implementation of ASU 2014-09.

During January 2016, the FASB issued ASU No. 2016-01, Financial Instruments Overall: Recognition and Measurement of Financial Assets and Financial Liabilities (ASU 2016-01). The standard addresses certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. This ASU is effective for fiscal years, and interim periods within those years, beginning after December 15, 2017. Early adoption is not permitted with the exception of certain provisions related to the presentation of other comprehensive income. The adoption of ASU 2016-01 is not expected to have a material impact on our financial position, results of operations or cash flows.

During February 2016, the FASB issued ASU No. 2016-02, Leases (ASU 2016-02). The standard requires lessees to recognize a lease liability and a lease asset for all leases, including operating leases, with a term greater than 12 months on its balance sheet. The update also expands the required quantitative and qualitative disclosures surrounding leases. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. The adoption of ASU 2016-02 is not expected to have a material impact on our financial position, results of operations or cash flows.

In March 2016, the FASB issued ASU No. 2016-06, Contingent Put and Call Option in Debt Instruments (ASU 2016-06). ASU 2016-06 is intended to simplify the analysis of embedded derivatives for debt instruments that contain contingent put or call options. The amendments in ASU 2016-06 clarify that an entity is required to assess the embedded call or put options solely in accordance with the four-step decision sequence. Consequently, when a call (put) option is contingently exercisable, an entity does not have to initially assess whether the event that triggers the ability to exercise a call (put) option is related to interest rates or credit risks. The amendments in ASU 2016-06 take effect for public business entities for financial statements issued for fiscal years beginning after December 15, 2016, and interim periods within those fiscal years. Early adoption is permitted, including adoption in an interim period. The Company does not expect the adoption of ASU 2016 01 to have a significant impact on its financial statements.

In March 2016, FASB issued ASU No. 2016-09, Improvements to Employee Share-based Payment Accounting (ASU 2016-09). ASU 2016-09 simplifies several aspects of the accounting for employee share-based payment transactions for both public and nonpublic entities, including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the statement of cash flows. ASU 2016-09 is effective for annual periods beginning after December 15, 2016, and interim periods within those annual periods. The adoption of ASU 2016-09 is not expected to have a material impact on our financial position, results of operations or cash flows.

In August 2016, FASB issued ASU No. 2016-15, Classification of Certain Cash Receipts and Cash Payments (ASU 2016-15). ASU 2016-15 clarifies the presentation and classification of certain cash receipts and cash payments in the statement of cash flows. ASU 2016-15 is effective for fiscal years, and interim periods within those years beginning after December 15, 2017. Early adoption is permitted. The Company does not expect the adoption of ASU No. 2016-15 to have a material impact on its financial statements.

Off-Balance Sheet Arrangements

As of December 31, 2016, we had no material off-balance sheet arrangements.

In the ordinary course of business, we enter into agreements with third parties that include indemnification provisions which, in our judgment, are normal and customary for companies in our industry sector. These agreements are typically with business partners, clinical sites, and suppliers. Pursuant to these agreements, we generally agree to indemnify, hold harmless, and reimburse indemnified parties for losses suffered or incurred by the indemnified parties with respect to our product candidates, use of such product candidates, or other actions taken or omitted by us. The maximum potential amount of future payments we could be required to make under these indemnification provisions is unlimited. We have not incurred material costs to defend lawsuits or settle claims related to these indemnification provisions. As a result, the estimated fair value of liabilities relating to these provisions is minimal. Accordingly, we have no liabilities recorded for these provisions as of December 31, 2016.

In the normal course of business, we may be confronted with issues or events that may result in a contingent liability. These generally relate to lawsuits, claims, environmental actions or the actions of various regulatory agencies. We consult with counsel and other appropriate experts to assess the claim. If, in our opinion, we have incurred a probable loss as set forth by accounting principles generally accepted in the U.S., an estimate is made of the loss and the appropriate accounting entries are reflected in our financial statements.

Contractual Arrangements

Significant contractual obligations as of December 31, 2016 are as follows:

		Amount Due in			
Type of Obligation	Total	Less than 1 Year	1 to 3 Years (In thousands)	3 to 5 Years	More than 5 Years
Notes Payable(1)	\$ 82,218	\$	\$ 26,004	\$	\$ 56,214
Derivative liabilities(2)	43,194	8,343			34,851
Operating lease obligations	74	74			
Total	\$ 125,486	\$ 8,417	\$ 26,004	\$	\$ 91,065

- (1) Amounts include both principal and related interest payments.
- (2) We have issued warrants to purchase shares of our common stock which contain provisions requiring us to make a cash payment to the holders of the warrant for any gain that could have been realized if the holders exercise the warrants and we subsequently fail to deliver a certificate representing the shares to be issued upon such exercise by the third trading day after such warrants have been exercised. As a result, these warrants have been recorded at their fair value and are classified as current liabilities. The value and timing of the actual cash payments, if any, related to these derivative instruments could differ materially from the amounts and periods shown.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Fair Value of Warrants and Derivative Liabilities. At December 31, 2016, the value of derivative instruments was \$43.2 million. We estimate the fair values of these instruments using the Black-Scholes option pricing model which takes into account a variety of factors, including historical stock price volatility, risk-free interest rates, remaining maturity and the closing price of our common stock. Furthermore, the estimated fair values of the conversion features embedded in our Convertible Notes, Bridge Notes, Reimbursement Notes, and Amended and Restated June 2010 Warrants, which contain reset provisions, were measured using the Monte Carlo valuation model. In using the Monte Carlo model, we estimate the probability and timing of potential future financing and fundamental transactions as applicable. We are required to

Table of Contents

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revalue this liability each quarter. We believe that the assumption that has the greatest impact on the determination of fair value is the closing price

of our common stock. The following table illustrates the potential effect of changes in the assumptions used to calculate fair value:

	Increase/(Decrease) (In thousands)		
25% increase in stock price	\$ 8,191		
50% increase in stock price	\$ 18,368		
5% increase in assumed volatility	\$ 1,402		
25% decrease in stock price	\$ (8,572)		
50% decrease in stock price	\$ (16,847)		
5% decrease in assumed volatility	\$ (3,041)		

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA EMISPHERE TECHNOLOGIES, INC.

FINANCIAL STATEMENTS

Index

	Page
Emisphere Technologies, Inc.	_
Report of Independent Registered Public Accounting Firm	44
Balance Sheets as of December 31, 2016 and 2015	45
Statements of Operations for the years ended December 31, 2016, 2015 and 2014	46
Statements of Cash Flows for the years ended December 31, 2016, 2015 and 2014	47
Statements of Stockholders Deficit for the years ended December 31, 2016, 2015 and 2014	48
Notes to the Financial Statements	49

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders

Emisphere Technologies, Inc.

We have audited the accompanying balance sheets of Emisphere Technologies, Inc. as of December 31, 2016 and 2015, and the related statements of operations, stockholders deficit, and cash flows for each of the three years in the period ended December 31, 2016. These financial statements are the responsibility of the Company s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Emisphere Technologies, Inc. as of December 31, 2016 and 2015, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2016, in conformity with U.S. generally accepted accounting principles.

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 1 to the financial statements, the Company has suffered recurring losses from operations, has a working capital deficiency and a significant stockholders deficit, and has limited cash availability. This raises substantial doubt about the Company s ability to continue as a going concern. Management s plans in regard to these matters also are described in Note 1. The financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ RSM US LLP

New York, New York

March 30, 2017

EMISPHERE TECHNOLOGIES, INC.

BALANCE SHEETS

December 31, 2016 2015 (In thousands,

ASSETS			except share data)			
Current assets:						
Cash and cash equivalents	\$	6,085	\$	12,898		
Accounts receivable, net	Ψ	301	Ψ	455		
Inventories		67		1,340		
Prepaid expenses and other current assets		107		1,040		
				,		
Total current assets		6,560		15,774		
Equipment and leasehold improvements, net				12		
Security deposit		24		24		
Total assets	\$	6,584	\$	15,810		
LIABILITIES AND STOCKHOLDERS DEFICIT Current liabilities:						
Accounts payable and accrued expenses	\$	869	\$	2,121		
Notes payable, related party	Ŷ	007	Ŷ	7,000		
Deferred revenue, current portion		513		631		
Royalty payable related party		515		208		
Derivative instruments:				200		
Related party		8,343		12,690		
Others		0,515		205		
				200		
Total current liabilities		9,725		22,855		
Notes payable, related party net of related discount		67,589		54,172		
Derivative instruments related party		34,851		35,071		
Royalty payable related party		206				
Deferred revenue		55,616		55,616		
Deferred lease liability and other liabilities		5		14		
Total liabilities		167,992		167,728		
Commitments and contingencies						
Stockholders deficit:						
Preferred stock, \$.01 par value; authorized 4,000,000 shares at December 31, 2016 and 2015; issued and outstanding at December 31, 2016 and 2015 none						
Common stock, \$.01 par value; authorized 400,000,000 shares at December 31, 2016 and 2015 issued						
60,977,210 shares (60,687,478 outstanding) at December 31, 2016 and 2015		610		610		
Additional paid-in capital		406,495		405,944		
Accumulated deficit		564,561)		554,520)		
Common stock held in treasury, at cost; 289,732 shares	((3,952)	((3,952)		
Total stockholders deficit	(161,408)	(151,918)		
Total liabilities and stockholders deficit	\$	6,584	\$	15,810		

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(See accompanying Notes to the Financials)

EMISPHERE TECHNOLOGIES, INC.

STATEMENTS OF OPERATIONS

		Year Ended December 31, 2016 2015				2014		
		(In thousands, except share and per sha						
Net revenue	\$	1,195	\$	411	\$			
Cost of goods sold		286		201				
Write-off of slow moving inventory		1,214		691				
Gross loss		(305)		(481)				
Costs and expenses:								
Research and development		373		475		1,128		
General and administrative		5,228		5,950		5,968		
Selling expenses		1,923		11,176		2,194		
Depreciation and amortization		12		14		15		
Total costs and expenses		7,536		17,615		9,305		
Operating loss		(7,841)		(18,096)		(9,305)		
Other non-operating income (expense):								
Investment and other income		15		12		10		
Change in fair value of derivative instruments:								
Related party		8,933		(13,950)		(12,172)		
Others		205		34		300		
Interest expense related party		(11,353)		(8,966)		(6,232)		
Total other non-operating income (expense)		(2,200)		(22,870)		(18,094)		
Loss before income tax benefit		(10,041)		(40,966)		(27,399)		
Income tax benefit				585		2,019		
Net loss	\$	(10,041)	\$	(40,381)	\$	(25,380)		
Net loss per share, basic and diluted	\$	(0.17)	\$	(0.67)	\$	(0.42)		
Weighted average shares outstanding, basic and diluted	6	0,687,478	6	0,687,478	6	0,687,478		

(See accompanying Notes to the Financials)

EMISPHERE TECHNOLOGIES, INC.

STATEMENTS OF CASH FLOWS

	Yea 2016	ar Ended December 2015 (In thousands)	31, 2014
Cash flows from operating activities:		(III thousands)	
Net loss	\$ (10,041)	\$ (40,381)	\$ (25,380)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation and amortization	12	14	15
Provision for slow moving inventory	1,214	691	
Provision for doubtful accounts	(3)	9	
Non-cash interest expense:			
Related party	10,782	8,756	6,007
Changes in the fair value of derivative instruments:			
Related party	(8,933)	13,950	12,172
Others	(205)	(34)	(300)
Non-cash compensation	343	413	231
Changes in assets and liabilities excluding non-cash charges:			
Decrease (increase) in accounts receivable	157	(464)	
Decrease (increase) inventories	59	37	(1,361)
Decrease (increase) in prepaid expenses and other current assets	974	(893)	(43)
Decrease in security deposits			10
(Decrease) increase in accounts payable and accrued expenses	(1,251)	274	306
(Decrease) in other current liabilities			(30)
Increase in royalty payable	206	208	
(Decrease) increase in deferred revenue	(118)	14,631	
(Decrease) increase in deferred lease and other liabilities	(9)	4	3
Total adjustments	3,228	37,596	17,010
Net cash used in operating activities	(6,813)	(2,785)	(8,370)
Cash flows from financing activities:			
Proceeds from notes payable		12,000	8,000
Net cash provided by financing activities		12,000	8,000
Net (decrease) increase in cash and cash equivalents	(6,813)	9,215	(370)
Cash and cash equivalents, beginning of year	12,898	3,683	4,053
Cash and cash equivalents, end of year	\$ 6,085	\$ 12,898	\$ 3,683
Non-cash investing and financing activities:			
Increase in debt discounts for new derivatives	\$ 4,365	\$ 4,130	\$ 2,540
Conversion of accrued interest to notes payable	\$ 10,782	\$ 8,756	\$ 5,542
Fully depreciated assets written off	\$ 593	\$	\$
Forgiveness of royalty payable, related party	\$ 208	\$	\$
(See accompanying Notes to the Financials)			

(See accompanying Notes to the Financials)

EMISPHERE TECHNOLOGIES, INC.

STATEMENTS OF STOCKHOLDERS DEFICIT

For the years ended December 31, 2016, 2015 and 2014

	Common Stock		Additional Paid-in Accumulated		Common Stock Held in Treasury				
	Shares	Ar	nount	Capital		Deficit ls except share	Shares A	•	Total
Balance, December 31, 2013	60,977,210	\$	610	\$ 405,300	\$		289,732	\$ (3,952)	\$ (86,801)
Net Loss						(25,380)			(25,380)
Stock based compensation for employees				71					71
Stock based compensation for directors				160					160
Balance, December 31, 2014	60,977,210	\$	610	\$ 405,531	\$	(514,139)	289,732	\$ (3,952)	\$ (111,950)
Net Loss						(40,381)			(40,381)
Stock based compensation for employees				164					164
Stock based compensation for directors				249					249
Balance, December 31, 2015	60,977,210	\$	610	\$ 405,944	\$	(554,520)	289,732	\$ (3,952)	\$ (151,918)
							l l		
Net Loss						(10,041)			(10,041)
Stock based compensation for employees				142		(,)			142
Stock based compensation for directors				201					201
Forgiveness of royalty payable- related party				208					208
Balance, December 31, 2016	60,977,210	\$	610	\$ 406,495	\$	(564,561)	289,732	\$ (3,952)	\$ (161,408)

(See accompanying Notes to the Financials)

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS

1. Nature of Operations, Risks and Uncertainties and Liquidity

Nature of Operations.

Emisphere Technologies, Inc. is a commercial stage pharmaceutical and drug delivery company. We are in partnership with global pharmaceutical companies to develop new formulations of existing products, as well as new chemical entities, using our Eligen[®] Technology. We launched our first prescription medical food product, oral Eligen B12 in the U.S. in March 2015, and we are engaged in multiple licensing discussions to optimize its economic value in the U.S. and global markets. Beyond Eligen B12 , we utilize our proprietary Eligen[®] Technology to create new oral formulations of therapeutic agents. Our product pipeline includes prescription drug and medical food product candidates that are being developed in partnership or internally.

Our core business strategy is to build new, high-value partnerships and continue to expand upon existing partnerships, pursue the global commercialization of oral Eligen B12 to optimize its economic value, evaluate commercial opportunities for new prescription medical foods, and promote new uses for our Eligen [®] Technology, a broadly applicable proprietary oral drug delivery platform which makes it possible to avoid injections for drug administration.

Risks and Uncertainties. The Company has no prescription drug products currently approved for sale by the U.S. FDA. There can be no assurance that our research and development will be successfully completed, that any products developed which require regulatory approvals will obtain necessary approvals or that any approved products will be commercially viable. In addition, we operate in an environment of rapid change in technology and are dependent upon the continued services of our current employees, consultants and subcontractors. We are highly dependent upon the commercial success of oral Eligen B12 Rx and cannot be sure that our plans will be successful. We have limited capital resources and significant commitments and obligations.

Since our inception in 1986, we have generated significant losses from operations and we anticipate that we will continue to generate significant losses from operations for the foreseeable future, and that in order to continue as a going concern, our business will require substantial additional investment that we have not yet secured.

As of December 31, 2016, our accumulated deficit was approximately \$564.6 million. Our loss from operations was \$7.8 million, \$18.1 million and \$9.3 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net loss was \$10.0 million, \$40.4 million and \$25.4 million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net cash provided (outlays) from operations and capital expenditures were (\$6.8), (\$2.8) million and (\$8.4) million for the years ended December 31, 2016, 2015 and 2014, respectively. Our net cash provided (outlays) include receipts of deferred revenue of (\$.1) million, \$14.6 million and \$0.0 million for 2016, 2015, and 2014, respectively. Our stockholders deficit was \$161.4 million and \$151.9 million as of December 31, 2016 and 2015, respectively. On December 31, 2016 we had approximately \$6.1 million in cash.

As of December 31, 2016, the Company s obligations included approximately \$53 million (face value) under its Second Amended and Restated Convertible Notes (the Convertible Notes), approximately \$26 million (face value) under a loan agreement entered into on August 20, 2014 (the Loan Agreement), approximately \$0.8 million (face value) under its Second Amended and Restated Reimbursement Notes (the Reimbursement Notes), and approximately \$2.4 million (face value) under its Second Amended and Restated Bridge Notes (the Bridge Notes).

On October 26, 2015 we received a total payment of \$14 million from Novo Nordisk pursuant to, and consisting of, \$5 million as payment for entry into the Expansion License Agreement and \$9 million as payment in connection with the third amendment to the GLP-1 License Agreement. Under terms of its loan agreements, the Company was obligated to pre-pay certain loans and notes using 50% of any extraordinary receipts, such as the \$14 million received from Novo Nordisk. Under the terms of the Loan Agreement and Convertible Notes Emisphere is required to satisfy annual net sales targets of Eligen B12 . As described in Note 7 to the Financial

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Statements, on December 8, 2016, we entered into various agreements whereby, among other things, the creditor under our Loan Agreement and Convertible Notes agreed to waive any event of default resulting from our failure to satisfy the net sales milestones for the Eligen B12 product for the 2016 fiscal year and all future periods specified in our Loan Agreement and Convertible Notes. The creditor also agreed to irrevocably waive the Company s obligation to pre-pay \$7 million of certain loans and notes resulting from the \$14 million cash receipt from Novo Nordisk.

Management has concluded that due to the conditions described above, there is substantial doubt about the entity s ability to continue as a going concern through March 30, 2018. We have evaluated the significance of the conditions in relation to our ability to meet our obligations and believe that our current cash balance will provide sufficient capital to continue operations through approximately March 2018. While our plan is to raise capital from commercial operations and/or product partnering opportunities to address our capital deficiencies and meet our operating cash requirements, there is no assurance that our plans will be successful. If we fail to generate sufficient capital from commercial operations or partnerships, we will need to seek capital from other sources and risk default under the terms of our existing loans. We cannot assure you that financing will be available on favorable terms or at all. Additionally, if additional capital is raised through the sale of equity or convertible debt securities, the issuance of such securities would result in dilution to our existing stockholders. Furthermore, despite our optimism regarding the Eligen [®] Technology, even in the event that the Company is adequately funded, there is no guarantee that any of our products or product candidates will perform as hoped or that such products can be successfully commercialized.

2. Summary of Significant Accounting Policies

Use of Estimates. The preparation of financial statements in accordance with accounting principles generally accepted in the U.S. involves the use of estimates and assumptions that affect the recorded amounts of assets and liabilities as of the date of the financial statements and the reported amounts of revenue and expenses and performance period for revenue recognition. Actual results may differ substantially from these estimates. Significant estimates include accrued expenses, the variables and method used to calculate stock-based compensation, derivative instruments and deferred taxes.

Reclassification. Certain prior year amounts have been reclassified to conform to current year presentation.

Concentration of Credit Risk. Financial instruments, which potentially subject us to concentrations of credit risk, consist of cash, cash equivalents, restricted cash and investments. We invest excess funds in accordance with a policy objective seeking to preserve both liquidity and safety of principal. We generally invest our excess funds in obligations of the U.S. government and its agencies, bank deposits, money market funds, and investment grade debt securities issued by corporations and financial institutions. We hold no collateral for these financial instruments. Concentration of credit risk with respect to our trade accounts receivable from our customers is primarily limited to drug wholesalers and retail pharmacies. Credit is extended to our customers based on an evaluation of a customer s financial condition, and collateral is not required.

Cash, Cash Equivalents, and Investments. We consider all highly liquid, interest-bearing instruments with original maturity of three months or less when purchased to be cash equivalents. Cash and cash equivalents may include demand deposits held in banks and interest bearing money market funds. Our investment policy requires that commercial paper be rated A-1, P-1 or better by either Standard and Poor s Corporation or Moody s Investor Services or another nationally recognized agency and that securities of issuers with a long-term credit rating must be rated at least A (or equivalent). As of December 31, 2016, we held no investments.

Trade Accounts Receivable and Allowance for Doubtful Accounts. Trade accounts receivable are customer obligations due under normal trade terms. We review accounts receivable for uncollectible accounts and provide an allowance for doubtful accounts, which is based upon a review of outstanding receivables, historical collection information, and existing economic conditions. We consider trade accounts receivable past due for more than

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

90 days to be delinquent. We write off delinquent receivables against our allowance for doubtful accounts based on individual credit evaluations, the results of collection efforts, and specific circumstances of customers. We record recoveries of accounts previously written off when received as an increase in the allowance for doubtful accounts. To the extent data we use to calculate these estimates does not accurately reflect bad debts; adjustments to these reserves may be required. The allowance for doubtful accounts at December 31, 2016 and 2015 was \$6 thousand \$9 thousand, respectively.

Inventory. Inventories are stated at the lower of cost or market determined by the first in, first out method. The Company s inventories are analyzed for slow moving and expired items no less frequently than quarterly and the valuation allowance is adjusted as required. Provisions are recorded for excess inventory which requires management s judgment. Conditions impacting the realizability of inventory could cause actual write-offs to be materially different than provisions for excess inventory. As of December 31, 2016 and 2015, inventory reserves amounted to \$0.6 million and \$0.7 million.

Impairment of Long-Lived Assets. In accordance with FASB ASC 360-10-35, we review our long-lived assets for impairment whenever events and circumstances indicate that the carrying value of an asset might not be recoverable. An impairment loss, measured as the amount by which the carrying value exceeds the fair value, is recognized if the carrying amount exceeds estimated undiscounted future cash flows.

Equipment and Leasehold Improvements. Equipment and leasehold improvements are stated at cost. Depreciation and amortization are provided on a straight-line basis over the estimated useful life of the asset. Leasehold improvements are amortized over the term of the lease or useful life of the improvements, whichever is shorter. Expenditures for maintenance and repairs that do not materially extend the useful lives of the respective assets are charged to expense as incurred. The cost and accumulated depreciation or amortization of assets retired or sold are removed from the respective accounts and any gain or loss is recognized in operations.

Deferred Lease Liability. Our leases provide for rental holidays and escalations of the minimum rent during the lease term, as well as additional rent based upon increases in real estate taxes and common maintenance charges. We record rent expense from leases with rental holidays and escalations using the straight-line method, thereby prorating the total rental commitment over the term of the lease. Under this method, the deferred lease liability represents the difference between the minimum cash rental payments and the rent expense computed on a straight-line basis.

Revenue Recognition. We recognize revenue in accordance with FASB ASC 605-10-S99, Revenue Recognition.

Oral Eligen B12 Rx Product

We sell our Oral Eligen B12 Rx product through drug wholesalers and retail pharmacies. We recognize revenue from prescription product sales, net of sales discounts, chargebacks, and rebates. We accept returns of unsalable product from customers within a return period of six months prior to and 12 months following product expiration. Our Oral Eligen B12 Rx product currently has a shelf life of 36 months from the date of manufacture. Given the limited history of our Oral Eligen B12 Rx product, we currently cannot reliably estimate expected returns of the prescription products at the time of shipment. Accordingly, we defer recognition of revenue on prescription products until the right of return no longer exists, which occurs at the earlier of the time the Oral Eligen B12 Rx product is dispensed through patient prescriptions or expiration of the right of return.

Collaborative Agreements and Feasibility Studies

Revenue earned from collaborative agreements and feasibility studies is comprised of reimbursed research and development costs, as well as upfront and research and development milestone payments. Deferred revenue represents payments received which are related to future performance. Revenue from feasibility studies, which are typically short term in nature, is recognized upon delivery of the study, provided that all other revenue recognition criteria are met.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Revenue from collaboration agreements are recognized using the proportional performance method provided that we can reasonably estimate the level of effort required to complete our performance obligations under an arrangement and such performance obligations are provided on a best effort basis and based on expected payments. Under the proportional performance method, periodic revenue related to nonrefundable cash payments is recognized as the percentage of actual effort expended to date as of that period to the total effort expected for all of our performance obligations under the arrangement. Actual effort is generally determined based upon actual hours incurred and include research and development (R&D) activities performed by us and time spent for Joint Steering Committee (JSC) activities. Total expected effort is generally based upon the total R&D and JSC hours incorporated into the project plan that is agreed to by both parties to the collaboration. Significant management judgments and estimates are required in determining the level of effort required under an arrangement and the period over which we expect to complete the related performance obligations. Estimates of the total expected effort included in each project plan are based on historical experience of similar efforts and expectations based on the knowledge of scientists for both the Company and its collaboration partners. The Company periodically reviews and updates the project plan for each collaborative agreement. The most recent reviews took place in January 2017. In the event that a change in estimate occurs, the change will be accounted for using the cumulative catch-up method which provides for an adjustment to revenue in the current period. Estimates of our level of effort may change in the future, resulting in a material change in the amount of revenue recognized in future periods.

Generally, under collaboration arrangements, nonrefundable payments received during the period of performance may include time- or performance-based milestones. The proportion of actual performance to total expected performance is applied to the expected payments in determining periodic revenue. However, revenue is limited to the sum of (i) the amount of nonrefundable cash payments received and (ii) the payments that are contractually due but have not yet been paid.

With regard to revenue recognition in connection with development and license agreements that include multiple deliverables, Emisphere s management reviews the relevant terms of the agreements and determines whether such deliverables should be accounted for as a single unit of accounting in accordance with FASB ASC 605-25, *Multiple-Element Arrangements*. If it is determined that a delivered license and Eligen[®] Technology do not have stand-alone value and Emisphere does not have objective evidence of fair value of the undelivered Eligen[®] Technology or the manufacturing value of all the undelivered items, then such deliverables are accounted for as a single unit of accounting and any payments received pursuant to such agreement, including any upfront or development milestone payments and any payments received for support services, will be deferred and included in deferred revenue within our balance sheet until such time as management can estimate when all of such deliverables will be delivered, if ever. Management reviews and reevaluates such conclusions as each item in the arrangement is delivered and circumstances of the development arrangement change. See Note 12 for more information about the Company s accounting for revenue from specific development and license agreements.

Research and Development and Clinical Trial Expenses. Research and development expenses include costs directly attributable to the conduct of research and development programs, including the cost of salaries, payroll taxes, employee benefits, materials, supplies, maintenance of research equipment, costs related to research collaboration and licensing agreements, the cost of services provided by outside contractors, including services related to our clinical trials, clinical trial expenses, the full cost of manufacturing drug for use in research, pre-clinical development, and clinical trials. All costs associated with research and development are expensed as incurred.

Clinical research expenses represent obligations resulting from our contracts with various research organizations in connection with conducting clinical trials for our product candidates. We account for those expenses on an accrual basis according to the progress of the trial as measured by patient enrollment and the timing of the various aspects of the trial. Accruals are recorded in accordance with the following methodology:

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

(i) the costs for period expenses, such as investigator meetings and initial start-up costs, are expensed as incurred based on management s estimates, which are impacted by any change in the number of sites, number of patients and patient start dates; (ii) direct service costs, which are primarily ongoing monitoring costs, are recognized on a straight-line basis over the life of the contract; and (iii) principal investigator expenses that are directly associated with recruitment are recognized based on actual patient recruitment. All changes to the contract amounts due to change orders are analyzed and recognized in accordance with the above methodology. Change orders are triggered by changes in the scope, time to completion and the number of sites. During the course of a trial, we adjust our rate of clinical expense recognition if actual results differ from our estimates.

Income Taxes. Deferred tax liabilities and assets are recognized for the expected future tax consequences of events that have been included in the financial statements or tax returns. These liabilities and assets are determined based on differences between the financial reporting and tax basis of assets and liabilities measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse. A valuation allowance is recognized to reduce deferred tax assets to the amount that is more likely than not to be realized. In assessing the likelihood of realization, management considered estimates of future taxable income.

Stock-Based Employee Compensation. We recognize expense for our share-based compensation based on the fair value of the awards at the time they are granted. We estimate the value of stock option awards on the date of grant using the Black-Scholes model. The determination of the fair value of share-based payment awards on the date of grant is affected by our stock price as well as assumptions regarding a number of complex and subjective variables. These variables include our expected stock price volatility over the term of the awards, expected term, risk-free interest rate, expected dividends and expected forfeiture rates. The forfeiture rate is estimated using historical option cancellation information, adjusted for anticipated changes in expected exercise and employment termination behavior. Our outstanding awards do not contain market or performance conditions therefore we have elected to recognize share-based employee compensation expense on a straight-line basis over the requisite service period.

Advertising Expenses. We expense advertising costs as incurred. Advertising expense was approximately \$0.3 million, \$0.7 million and \$0.0 million, during the years ended December 31, 2016, 2015 and 2014, respectively and is included in selling expenses on the Statement of Operations.

Fair Value of Financial Instruments. The carrying amounts for cash, cash equivalents, accounts receivable, accounts payable, and accrued expenses approximate fair value because of their short-term nature. At December 31, 2016, the carrying value of the Second Amended and Restated Convertible Notes, Second Amended and Restated Reimbursement Notes, Second Amended and Restated Bridge Notes and Loan Agreement was \$67.6 million, which reflects its original cost plus accrued interest. See Note 7 for further discussion of the notes payable.

Derivative Instruments. Derivative instruments consist of common stock warrants, and certain instruments embedded in certain notes payable and related agreements. These financial instruments are recorded in the balance sheets at fair value as liabilities. Changes in fair value are recognized in earnings in the period of change.

Fair Value Measurements. The authoritative guidance for fair value measurements defines fair value as the price that would be received if an asset were to be sold or paid to transfer a liability in an orderly transaction between market participants on the measurement date. Market participants are buyers and sellers in the principal market that are (i) independent, (ii) knowledgeable, (iii) able to transact, and (iv) willing to transact. The guidance describes a fair value hierarchy based on the levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value which are the following:

Level 1 Quoted prices in active markets for identical assets or liabilities

Level 2 Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

observable or corroborated by observable market data for substantially the full term of the assets or liabilities

Level 3 Unobservable inputs that are supported by little or no market activity and that are significant to the value of the assets or liabilities

Future Impact of Recently Issued Accounting Standards

In April 2015, the FASB issued ASU 2015-03, Interest Imputation of Interest (ASU 2015-03), which requires that debt issuance costs related to a recognized debt liability be presented in the balance sheet as a direct deduction from the carrying amount of that debt liability, consistent with debt discounts. The recognition and measurement guidance for debt issuance costs are not affected by the amendments in this ASU. ASU 2015-03 is effective for annual and interim periods beginning on or after December 15, 2015. The adoption of ASU 2015-03 did not have a material impact on our financial position, results of operations or cash flows.

In August 2014, the FASB issued ASU No. 2014-15, Disclosure of Uncertainties About an Entity s Ability to Continue as a Going Concern (ASU 2014-15), which provides guidance on management s responsibility in evaluating whether there is substantial doubt about an entity s ability to continue as a going concern and to provide related footnote disclosures. ASU 2014-15 is effective for the annual period ending after December 15, 2016, and for annual and interim periods thereafter. The adoption of ASU 2014-15 did not have a material impact on our financial position, results of operations or cash flows.

In July 2015, the FASB issued ASU No. 2015-11, Simplifying the Measurement of Inventory (ASU 2015-11). ASU 2015-11 requires that inventory within the scope of the guidance be measured at the lower of cost and net realizable value. Inventory measured using last-in, first-out and retail inventory method are excluded from this new guidance. This ASU replaces the concept of market with the single measurement of net realizable value and is intended to create efficiencies for preparers and more closely aligns U.S. GAAP with IFRS. This ASU is effective for public business entities in fiscal years beginning after December 15, 2016, including interim periods within those years. Prospective application is required and early adoption is permitted as of the beginning of an interim or annual reporting period. The adoption of ASU 2015-11 is not expected to have a material impact on our financial position, results of operations or cash flows.

In May 2014, the FASB issued ASU No. 2014-09, Revenue from Contracts with Customers (ASU 2014-09), which requires entities to recognize revenue in a way that depicts the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled to in exchange for those goods or services. ASU 2014-09 is effective for the first interim period within an annual period beginning after December 15, 2017. The new guidance also requires additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. Adoption can occur using one of two prescribed transition methods. In 2016, the FASB issued four amendments to ASU 2014-09. We have begun a limited evaluation of the provisions of ASU 2014-09 and the impact, if any; it may have on our financial position and results of operations. Our evaluation work to date includes the training of ASU 2014-09, contract review and an assessment of the distribution model for which we recognize revenue for our Eligen B12 products. We have a small number of contracts which require an assessment and believe we have sufficient time for the implementation of ASU 2014-09.

During January 2016, the FASB issued ASU No. 2016-01, Financial Instruments Overall: Recognition and Measurement of Financial Assets and Financial Liabilities (ASU 2016-01). The standard addresses certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. This ASU is effective for fiscal years, and interim periods within those years, beginning after December 15, 2017. Early adoption is not permitted with the exception of certain provisions related to the presentation of other comprehensive income. The adoption of ASU 2016-01 is not expected to have a material impact on our financial position, results of operations or cash flows.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

During February 2016, the FASB issued ASU No. 2016-02, Leases (ASU 2016-02). The standard requires lessees to recognize a lease liability and a lease asset for all leases, including operating leases, with a term greater than 12 months on its balance sheet. The update also expands the required quantitative and qualitative disclosures surrounding leases. ASU 2016-02 is effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. The adoption of ASU 2016-02 is not expected to have a material impact on our financial position, results of operations or cash flows due to an insignificant number of leases that the Company has entered into.

In March 2016, the FASB issued ASU No. 2016-06, Contingent Put and Call Option in Debt Instruments (ASU 2016-06). ASU 2016-06 is intended to simplify the analysis of embedded derivatives for debt instruments that contain contingent put or call options. The amendments in ASU 2016-06 clarify that an entity is required to assess the embedded call or put options solely in accordance with the four-step decision sequence. Consequently, when a call (put) option is contingently exercisable, an entity does not have to initially assess whether the event that triggers the ability to exercise a call (put) option is related to interest rates or credit risks. The amendments in ASU 2016-06 take effect for public business entities for financial statements issued for fiscal years beginning after December 15, 2016, and interim periods within those fiscal years. Early adoption is permitted, including adoption in an interim period. The Company does not expect the adoption of ASU 2016 01 to have a significant impact on its financial statements.

In March 2016, FASB issued ASU No. 2016-09, Improvements to Employee Share-based Payment Accounting (ASU 2016-09). ASU 2016-09 simplifies several aspects of the accounting for employee share-based payment transactions for both public and nonpublic entities, including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the statement of cash flows. ASU 2016-09 is effective for annual periods beginning after December 15, 2016, and interim periods within those annual periods. The adoption of ASU 2016-09 is not expected to have a material impact on our financial position, results of operations or cash flows.

In August 2016, FASB issued ASU No. 2016-15, Classification of Certain Cash Receipts and Cash Payments (ASU 2016-15). ASU 2016-15 clarifies the presentation and classification of certain cash receipts and cash payments in the statement of cash flows. ASU 2016-15 is effective for fiscal years, and interim periods within those years beginning after December 15, 2017. Early adoption is permitted. The Company does not expect the adoption of ASU No. 2016-15 to have a material impact on its financial statements.

Management does not believe there would have been a material effect on the accompanying financial statements had any other recently issued, but not yet effective, accounting standards been adopted in the current period.

3. Inventory

Inventory consists of the following:

	Decem	December 31,	
	2016 (In tho	2015 Isands)	
Raw Materials	\$	\$ 558	
Finished Goods	67	782	
	\$ 67	\$ 1,340	

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

4. Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consist of the following:

	2016	iber 31, 2015 Jusands)
Prepaid corporate insurance	\$ 86	\$ 93
Deposit on inventory		184
Prepaid expenses and other current assets	21	804
	\$ 107	\$ 1,081

5. Fixed Assets

Equipment and leasehold improvements, net, consists of the following:

	December 31,		
	Useful Lives in Years	2016 (In the	2015 ousands)
Equipment	3-7	\$ 9	\$ 601
Leasehold improvements	Term of lease	27	27
		36	628
Less, accumulated depreciation and amortization		36	616
		\$	\$ 12

Depreciation expense for the years ended December 31, 2016, 2015 and 2014, was \$12 thousand, \$14 thousand and \$15 thousand, respectively.

6. Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses consist of the following:

	Decen	nber 31,
	2016	2015
	(In the	ousands)
Accounts payable	\$ 638	\$ 1,762
Accrued legal, professional fees and other	202	304
Accrued vacation	29	55
	\$ 869	\$ 2.121

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

7. Notes Payable

Notes payable, net of related discounts, consists of the following:

	December 31,	
	2016	2015
	(in tho	usands)
Convertible Notes	\$ 40,699	\$ 37,450
Loan Agreement	26,004	22,801
Reimbursement Notes	795	755
Bridge Notes	91	166
	67,589	61,172
Less: Current portion		7,000
Non-current Notes payable, net of related discounts	\$ 67,589	\$ 54,172

Loan Agreement. On August 20, 2014, the Company entered into a series of agreements (the Transaction Documents) with MHR Capital Partners Master Account LP, MHR Capital Partners (100) LP, MHR Institutional Partners II LP, and MHR Institutional Partners IIA LP, (collectively, MHR or the Lenders), for a new loan facility, an extension of the Company s existing obligations under various promissory notes previously issued to the Lenders, and for payment by the Company of certain royalties to MHR (the Transaction).

In 2014, we accounted for the modifications to the Company s obligations to MHR evidenced by the MHR Notes as a troubled debt restructuring under FASC ASC 470-60. As there was only a modification of terms to the existing debt and we did not transfer any assets or equity in a settlement to MHR no gain or loss was recorded on the transaction. The change in cash outflows resulting from the modification of terms are accounted for on a prospective basis.

Additional fees paid by Emisphere in connection with the Loan Agreement, MHR Notes and the Royalty Agreement included the reimbursement of \$0.3 million of MHR s professional fees associated with the transaction, which was recorded as interest expense for the year ended December 31, 2014.

The Loan Agreement provided for, among other things, a commitment (the Commitment) of the Lenders to loan the Company up to \$20 million to finance the development, manufacturing, marketing and sale of oral Eligen B12 Rx (the B12 Product). The Loan Agreement provided for five borrowings (each, a Borrowing , and collectively, the Loan). The first Borrowing occurred on August 20, 2014 in an original principal amount of \$5 million, the second occurred on November 4, 2014, in an original principal amount of \$3 million, the third occurred on January 6, 2015 in an original principal amount of \$5.0 million, the fourth occurred on April 6, 2015 in an original principal amount of \$5.0 million, and the fifth and final borrowing occurred on July 1, 2015 in an original principal amount of \$2.0 million.

The Loan will mature on the earlier of (a) December 31, 2019, and, (b) 30 days after the end of any fiscal year in which the Company s cash (plus certain cash expenditures during such fiscal year that are unrelated to the B12 Product or related products) as of the end of such fiscal year (subject to certain permitted deductions) is more than three times the principal amount of the Loan as of the end of such fiscal year. The Loan bears interest at a rate of 13% per annum (the Interest Rate), compounded monthly, and will be payable in kind and in arrears on June 30 and December 31 of each year up to and including the maturity date by increasing the outstanding principal amount of the Loan by the amount of each such interest payment. So long as an event of default under the Loan Agreement (an Event of Default) has occurred and is continuing, at the election of MHR, interest shall accrue on the Loan at a rate equal to 2% per annum above the Interest Rate (Default Rate). Interest at the

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Default Rate shall accrue from the initial date of such Event of Default until that Event of Default is cured or waived in writing and shall be payable upon demand and, if not paid when due, shall itself bear interest at the Default Rate. The Loan Agreement provides for certain representations and warranties, affirmative and negative covenants of the Company and Events of Default.

In connection with the entry into the Loan Agreement, on August 20, 2014, the Lenders and the Company further amended and restated (i) the Convertible Notes issued by the Company to certain of the Lenders, (ii) the Bridge Notes issued by the Company to certain of the Lenders, and (iii) the Reimbursement Notes (and, together with the Convertible Notes and Bridge Notes, the MHR Notes). Also, in connection with the entry into the Loan Agreement and the amendment and restatement of the MHR Notes, Institutional Partners IIA and the Company have amended the Pledge and Security Agreement, dated September 26, 2005, as amended, by and between the Company and Institutional Partners IIA to, among other things, secure the Reimbursement Notes and payments due under the Loan Agreement with substantially all of the Company s assets, and secure the payments due under the Royalty Agreement and Paid-In-Kind Royalties due under the Loan Agreement with the Company s intellectual property relating to the B12 Products and related products. As of December 31, 2016, the principal balance of the Loan agreement was approximately \$26.0 million.

Convertible Notes. On September 26, 2005, we received net proceeds of approximately \$12.9 million under a \$15 million secured loan agreement (the 2005 Loan Agreement) executed with MHR. Under the 2005 Loan Agreement, MHR requested, and on May 16, 2006, we effected, the exchange of the loan from MHR for the predecessor of the Convertible Notes, which were 11% senior secured convertible notes with substantially the same terms as the 2005 Loan Agreement, except that the original Convertible Notes were convertible, at the sole discretion of MHR, into shares of our common stock at a price per share of \$3.78. In connection with the original Convertible Notes exchange, the Company agreed to appoint a representative of MHR (the MHR Nominee) and another person (the Mutual Director) to the Board. Further, the Company agreed to amend, and in January 2006 did amend, its certificate of incorporation to provide for continuity of the MHR Nominee and the Mutual Nominee on the Board so long as MHR holds at least 2% of the outstanding common stock of the Company. The original Convertible Notes were amended and restated on May 7, 2013 and amended and restated a second time on August 20, 2014 as described below.

The August 20, 2014 amended and restated Convertible Notes provide for a maturity date of March 31, 2022 (subject to acceleration upon the occurrence of certain specified events of default, including the failure to meet certain sales, performance, and manufacturing milestones specified in the Convertible Notes). The interest rate is 13% per annum, compounded monthly, which interest will be payable in the form of additional Convertible Notes. The Convertible Notes are collateralized by a first priority lien in favor of the Lenders on substantially all of the Company s assets. After all principal and interest under the Loan Agreement and Reimbursement Notes are repaid, the remaining Convertible Notes must be redeemed from time to time prior to maturity pursuant to a cash sweep of 50% of the Company s adjusted consolidated free cash flow (75% of the Company s adjusted consolidated free cash flow in any year in which the Company s adjusted consolidated free cash flow exceeds \$50 million) to the extent such cash sweep does not cause the Company s cash as of the end of such year to be less than the Minimum Cash Balance. The Convertible Notes are convertible, at the option of the holders, at a conversion price of \$1.25 per share of common stock, which conversion price is subject to adjustment upon the occurrence of specified events, including stock dividends, stock splits, certain fundamental corporate transactions, and certain issuances of common stock by the Company. The Convertible Notes must also be redeemed from time to time prior to maturity pursuant to (a) a cash sweep of 50% of any cash proceeds received from any third party in connection with the license, distribution or sale of any Non-B12 Product, and (b) a Royalty Match (as described below), to the extent such Royalty Match does not cause the Company s cash as of the end of such year to be less than the Minimum Cash Balance and subject to the priority described below. If we fail to meet our obligations under the terms of the Convertible Notes, or fail to meet any of the sales, operating or manufacturing performance criteria included in the Convertible Notes, we would be in default under these notes, which would give MHR the option of foreclosing on substantially all of our assets. As of

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

December 31, 2016, the principal balance of the Convertible Notes was approximately \$53.0 million; and the Convertible Notes were convertible into 42,373,002 shares of our common stock.

The Company was required to satisfy annual net sales targets of Eligen B12 by December 31 for each fiscal year beginning 2015 through 2019 pursuant to the terms of the Loan Agreement and Convertible Notes. Failure to satisfy the sales targets will result in an event of default under these instruments, provided that the Company is not granted a waiver. On November 10, 2015, the Lenders agreed to waive any event of default resulting from the failure to satisfy the net sales milestones for the Eligen B12 product for the 2015 fiscal year specified in the Loan Agreement and Convertible Notes (See December 2016 Debt Modification , below).

Reimbursement Notes. On June 8, 2010, the Company issued the predecessor to the Reimbursement Notes to MHR in the form of certain non-interest bearing promissory notes in the aggregate principal amount of \$600,000 in reimbursement for legal expenses incurred by MHR in connection with MHR s agreement to, among other things, waive certain rights as a senior secured party of the Company and enter into a non-disturbance agreement with the Company s collaboration partner Novartis Pharma AG, and, if necessary, to enter into a comparable agreement in connection with another potential Company transaction. The original Reimbursement Notes were amended and restated on May 7, 2013 and amended and restated again on August 20, 2014 as described below.

The Reimbursement Notes provide for a maturity date of the earlier of (a) March 31, 2022 and (b) immediately prior to the time that any amounts outstanding under the Loan Agreement are repaid (subject to acceleration upon the occurrence of certain events of default specified in the Reimbursement Notes), and bear interest at the rate of 10% per annum, compounded monthly, which interest is payable in the form of additional Reimbursement Notes. The Reimbursement Notes are collateralized by a first priority lien in favor of the Lenders on substantially all of the Company s assets. The Reimbursement Notes are convertible, at the option of the holders, at a conversion price of \$0.50 per share of common stock, which conversion price is subject to adjustment upon the occurrence of specified events, including stock dividends, stock splits, certain fundamental corporate transactions, and certain issuances of common stock by the Company. As of December 31, 2016, the principal balance of the Reimbursement Notes was \$0.8 million; and the Reimbursement Notes were convertible into 1,671,632 shares of our common stock.

Bridge Notes. On October 17, 2012, the Company issued to MHR the predecessor to the Bridge Notes in the aggregate principal amount of \$1,400,000. The original Bridge Notes provided for an interest rate of 13% per annum and were payable on demand. The Bridge Notes were amended and restated on May 7, 2013 and restated again on August 20, 2014 as described below.

The Bridge Notes provide for a maturity date of March 31, 2022 (subject to acceleration upon the occurrence of certain events of default specified) and bear interest at 13% per year, compounded monthly and payable in the form of additional Bridge Notes. The Bridge Notes are collateralized by a first priority lien in favor of the Lenders on substantially all of the Company s assets. The Bridge Notes are convertible, at the option of the holders, at a conversion price of \$0.50 per share of common stock, which conversion price is subject to adjustment upon the occurrence of specified events, including stock dividends, stock splits, certain fundamental corporate transactions, and certain issuances of common stock by the Company. As of December 31, 2016, the principal balance of the Bridge Notes was approximately \$2.4 million; and the Bridge Notes were convertible into 4,824,006 shares of our common stock.

Royalty Agreement. As a condition to MHR entering into the Loan Agreement and amending and restating the MHR Notes, the Company and MHR entered into a Royalty Agreement (the Royalty Agreement) on August 20, 2014, pursuant to which the Company agreed to pay to MHR, subject to specified terms and conditions, royalties in perpetuity (the Royalties), commencing as of the date of the Royalty Agreement, in an amount equal to: twenty percent (20%) of all Net Product Sales (as defined in the Royalty Agreement) and any third party payments arising in connection with the sale of the B12 Product and related products, during any fiscal year. Under certain conditions including the full settlement of the Loan Agreement, the royalty rate may reduce to 5% or 2.5%.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

If the Company does not have sufficient cash in excess of the Minimum Cash Balance to pay any Royalties that become due under the Royalty Agreement in cash, such Royalties will be paid as an additional Loan under the Loan Agreement by increasing the principal amount outstanding under the Loan Agreement (any such Loan, Paid-In-Kind Royalties). The Minimum Cash Balance generally means cash on hand of at least \$10 million (or \$15 million, under certain circumstances beginning as early as October 1, 2015). On December 31, 2015, the Company had a \$12.9 million cash balance, greater than the \$10 million Minimum Cash Balance as defined under the Loan Agreement, therefore \$0.2 million Royalties payable under the Royalty Agreement for 2015 were due in cash. In December 2016, the accrued Royalties for 2015 were forgiven (see below). As of December 31, 2016, the Company accrued \$0.2 million of Royalties. Such Royalties will be paid in 2017 by increasing the principal amount outstanding under the Loan Agreement.

December 2016 Debt Modifications. On October 26, 2015, the Company received a total payment of \$14 million from Novo Nordisk pursuant to, and consisting of, \$5 million as payment for entry into the Expansion License Agreement and \$9 million as payment in connection with the third amendment to the GLP-1 License Agreement. Under the terms of our loan agreements with MHR, we were obligated to pre-pay certain loans and notes using 50% of any such extraordinary receipts. On December 8, 2016, the Company entered a series of agreements with MHR pursuant to which MHR agreed to (1) waive the Company s obligation to pre-pay \$0.8 million of the Reimbursement Notes and \$6.2 million of the Loans in connection with the \$14 million of cash proceeds from Novo Nordisk, (2) waive any and all rights to the Royalties for the year ended December 31, 2015, (3) waive the cash sweep of 50% of any cash proceeds received from any third party in connection with the license, distribution or sale of any of the Company s products other than B12 Product or related products if such proceeds are actually received by the Company prior to the earlier of (i) October 31, 2018 and (ii) the date immediately following the date that the Company actually receives such proceeds during any consecutive twelve month period in excess of \$5 million in the aggregate, (4) waive any events of default as a result of the Company s failure to meet the Eligen B12 net sales targets that have already occurred or may occur in the future, (5) forgive an amount equal to \$7 million of the outstanding principal of the Loan Agreement upon the first commercial sale in the United States or European Union (including the United Kingdom) of a Licensed product under the GLP-1 License Agreement with Novo Nordisk.

In consideration of the above modifications, the Company granted to MHR, among other things, a portion of any royalties payable under the terms of the GLP-1 Agreement equal to 0.5% of net sales for any licensed product subject to the GLP -1 Agreement. The GLP-1 Agreement was amended to provide that, among other things, Novo Nordisk will pay such 0.5% royalties directly to MHR.

The above debt modifications were accounted for as a troubled debt restructuring under FASC ASC 470-60. As there was only a modification of terms to the existing debt and we did not transfer any assets or equity in a settlement to MHR no gain or loss was recorded on the transaction. The change in cash outflows resulting from the modification of terms are accounted for on a prospective basis.

Direct costs incurred by Emisphere in connection with the above modifications were \$0.4 million which was recorded as interest expense for the year ended December 13, 2016. As MHR is a related party, the forgiveness of the 2015 royalty accrual of \$0.2 million was recorded in additional paid-in capital as a capital contribution.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

The carrying value of the MHR Obligations is comprised of the following:

	Decem	ber 31,
	2016	2015
	(in thou	isands)
Amended and Restated Convertible Notes	\$ 52,966	\$ 46,542
Loan Agreement	26,004	22,801
Amended and Restated Reimbursement Notes	836	755
Amended and Restated Bridge Notes	2,412	2,155
Unamortized discounts	(14,629)	(11,041)
	\$ 67,589	\$ 61,172

8. Derivative Instruments

Derivative instruments consist of the following:

	December 31,	
	2016	2015
	(in tho	usands)
Convertible Notes	\$ 30,559	\$ 30,823
Reimbursement Notes	1,105	1,118
Bridge Notes	3,187	3,130
Amended and Restated August 2009 Warrants	1,412	2,142
Amended and Restated June 2010 MHR Warrants	344	552
Amended and Restated August 2010 Warrants	993	1,507
Amended and Restated August 2010 MHR Waiver Warrants	369	560
Amended and Restated July 2011 Warrants	1,139	1,729
July 2011 Investor Warrants*		205
Amended and Restated July 2011 MHR Waiver Warrants	301	456
May 2013 MHR Modification Warrants	3,785	5,744

* Expired in July of 2016

Some of the Company s outstanding derivative instruments have an exercise price reset feature. The estimated fair value of warrants and embedded conversion features that have an exercise price reset feature is estimated using the Monte Carlo valuation model. The estimated fair value of warrants that do not contain an exercise price reset feature is measured using the Black-Scholes valuation model. Inherent in both of these models are assumptions related to expected volatility, remaining life, risk-free rate and expected dividend yield. For the Monte Carlo model, we estimate the probability and timing of potential future financing and fundamental transactions as applicable.

Embedded Conversion Feature of MHR Notes. The Convertible Notes, the Reimbursement Notes, and the Bridge Notes (collectively, the MHR Notes) contain a provision whereby the conversion price is adjustable upon the occurrence of certain events, including the issuance by

\$43,194

\$47,966

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Emisphere of common stock or common stock equivalents at a price which is lower than the current conversion price of each of the MHR Notes and lower than the then-current market price. Under FASB ASC 815-40-15-5, the embedded conversion feature of the MHR Notes is not considered indexed to the Company s own stock and, therefore, does not meet the scope exception in

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

FASB ASC 815-10-15 and thus needs to be accounted for as a derivative liability. The liability associated with the MHR Notes has been presented as a non-current liability as of December 31, 2016 and 2015 to correspond to their host contract.

Convertible Notes. In addition to the foregoing, the adjustment provision of the Convertible Notes does not become effective unless and until the Company were to raise \$10 million through the issuance of common stock or common stock equivalents during any consecutive 24-month period. The fair value of the embedded conversion feature of the Convertible Notes is estimated at the end of each quarterly reporting period using the Monte Carlo model. The assumptions used in computing the fair values as December 31, 2016 and 2015 are as follows:

	December 31, 2016	December 31, 2015	
Closing stock price	\$ 0.60	\$	0.68
Conversion price	\$ 1.25	\$	1.25
Expected volatility	146%		143%
Remaining term (years)	5.25		6.25
Risk-free rate	1.95%		1.95%
Expected dividend yield	0%		0%

The fair value of the embedded conversion feature of the Convertible Notes decreased \$4.3 million for the year ended December 31, 2016 and increased \$5.7 million and \$8.9 million for the years ended December 31, 2015 and 2014, respectively, which amounts have been recognized in the accompanying statements of operations.

Reimbursement Notes. The fair value of the embedded conversion feature of the Reimbursement Notes is estimated at the end of each quarterly reporting period using the Monte Carlo model. The assumptions used in computing the fair value as of December 31, 2016 and 2015 are as follows:

	December 31, 2016	,	
Closing stock price	\$ 0.60	\$	0.68
Conversion price	\$ 0.50	\$	0.50
Expected volatility	146%		143%
Remaining term (years)	5.25		6.25
Risk-free rate	1.95%		1.95%
Expected dividend yield	0%		0%

The fair value of the embedded conversion of the Reimbursement Notes decreased \$0.1 million for the year ended December 31, 2016 and increased \$0.3 and \$0.7 million for the years ended December 31, 2016 and 2015, respectively, which has been recognized in the accompanying statements of operations.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Bridge Notes. The fair value of the embedded conversion feature of the Bridge Notes is estimated at the end of each quarterly reporting period using the Monte Carlo model. The assumptions used in computing the fair value as of December 31, 2016 and 2015 are as follows:

	December 31, 2016	mber 31, 2015
Closing stock price	\$ 0.60	\$ 0.68
Conversion price	\$ 0.50	\$ 0.50
Expected volatility	146%	143%
Remaining term (years)	5.25	6.25
Risk-free rate	1.95%	1.95%
Expected dividend vield	0%	0%

The fair value of the embedded conversion feature of the Bridge Notes decreased \$0.2 million for the year ended December 31, 2016 and increased \$0.8 million and \$0.7 million for the years ended December 31, 2015 and 2014, respectively, which has been recognized in the accompanying statements of operations.

Amended and Restated June 2010 Warrants. In June 2010, the Company granted MHR warrants to purchase 865,000 shares of its common stock (the June 2010 Warrants). In connection with the Restructuring, on May 7, 2013, the Company amended and restated the Original Warrants such that the expiration date of the Original Warrant was extended to July 8, 2019, and the exercise price was reduced to \$0.50 per share (as amended and restated, the Amended and Restated August 2010 Warrants). The exercise price of the Amended and Restated June 2010 Warrants is adjustable upon the occurrence of certain events, including the issuance by Emisphere of common stock or common stock equivalents at a price which is lower than the current exercise price of these warrants and lower than the current market price. However, the adjustment provision does not become effective unless the Company were to raise \$10 million through the issuance of common stock or common stock or common stock equivalents at a price which is lower than the current conversion price of these warrants and lower than the current market price during any consecutive 24-month period. The fair value of the Amended and Restated June 2010 Warrants is estimated at the end of each quarterly reporting period using the Monte Carlo model. The assumptions used in computing the fair value of the Amended and Restated June 2010 Warrants as of December 31, 2016 and 2015, are as follows:

	December 3	51, De	ecember 31,
	2016		2015
Closing stock price	\$ 0.6	i0 \$	0.68
Conversion price	\$ 0.5	0 \$	0.50
Expected volatility	10	3%	136%
Remaining term (years)	2.5	2	3.52
Risk-free rate	1.3	3%	1.42%
Expected dividend yield		0%	0%

The fair value of the Amended and Restated June 2010 MHR Warrants decreased \$0.2 million for the year ended December 31, 2016 and increased \$.3 million and \$32 thousand for the years ended December 31, 2015 and 2014, respectively. These fluctuations have been recognized in the accompanying statements of operations.

Amended and Restated Warrants. Prior to the Restructuring, the Company issued to MHR warrants to purchase varying amounts of its common stocks at various times from 2009 through 2011, as described more fully below (the August 2009 Warrants, August 2010 Warrants, August 2010 MHR Waiver Warrants, July 2011 Warrants, July 2011 MHR Waiver Warrants, and collectively, the Original Warrants). In connection with the Restructuring, on May 7, 2013, the Company amended and restated each of the Original Warrants such that the expiration date of each Original Warrant was extended to July 8, 2019, and the exercise price was reduced to

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

\$0.50 per share (as amended and restated, the Amended and Restated August 2009 Warrants , Amended and Restated August 2010 Warrants , Amended and Restated August 2010 MHR Waiver Warrants , Amended and Restated July 2011 Warrants , Amended and Restated July 2011 MHR Waiver Warrants , and collectively, the Amended and Restated Warrants). Under the terms of each of the Amended and Restated Warrants, as well as the August 2010 Investor Warrants, July 2011 Investor Warrants and 2013 Restructuring Warrants (collectively, the Investor Warrants, and together with the Original Warrants, the Warrants), the Company has an obligation to make a cash payment to the holders of each of the Warrants for any gain that could have been realized if such holder exercised the warrants and we subsequently failed to deliver a certificate representing the shares to be issued upon such exercise by the third trading day after the Warrants were exercised. Accordingly, the Warrants have been accounted for as a liability. The fair value of each of the Original Warrants as of December 31, 2016 and 2015, are as follows:

	December 31,	· · · · · · · · · · · · · · · · · · ·	
	2016	2	015
Closing stock price	\$ 0.60	\$	0.68
Conversion price	\$ 0.50	\$	0.50
Expected volatility	103%		141%
Remaining term (years)	2.52		3.52
Risk-free rate	1.47%		1.31%
Expected dividend yield	0%		0%

The fair value of the Original Warrants decreased \$2.2 million for the year ended December 31, 2016 and increased \$3.8 million and \$1.0 million for the years ended December 31, 2015 and 2014, respectively. These fluctuations have been recognized in the accompanying statements of operations.

August 2010 Investor Warrants. Also in connection with the August 2010 Financing, Emisphere sold warrants to purchase 2.6 million shares of common stock to unrelated investors (the August 2010 Warrants). On January 12, 2011, one of the unrelated investors notified the Company of its intention to exercise 0.2 million warrants. On August 26, 2015, the remaining August 2010 Warrants expired. The fair value of the August 2010 Investor Warrants decreased \$29 thousand for the period January 1, 2015 through their expiration on August 26, 2015, which has been recognized in the accompanying statements of operations.

July 2011 Investor Warrants. Also in connection with the July 2011 Financing, Emisphere sold warrants to purchase 3.01 million shares of common stock to unrelated investors (the July 2011 Warrants). The July 2011 Warrants are exercisable at \$1.09 per share and expired July 6, 2016. The assumptions used in computing the fair value of the July 2011 Warrants as of December 31, 2015, are as follows:

	Dec	cember 31, 2015
Closing stock price	\$	0.68
Conversion price	\$	1.09
Expected volatility		88%
Remaining term (years)		0.51
Risk-free rate		0.49%
Expected dividend yield		0%

The fair value of the July 2011 Investor Warrants decreased \$0.2 million for the period from January 1, 2016 through their expiration on July 6, 2016 and decreased \$5 thousand and \$0.2 million for the years ended December 31, 2015 and 2014, respectively, which has been recognized in the accompanying statements of operations.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

2013 Restructuring Warrants. The Company issued to MHR warrants to purchase 10 million shares of its common stock (the 2013 Restructuring Warrants) as part of the Restructuring. The assumptions used in computing the fair value of the 2013 Restructuring Warrants as of December 31, 2016 and 2015, are as follows:

	December 31, 2016	December 31, 2015	
Closing stock price	\$ 0.60	\$	0.68
Conversion price	\$ 0.50	\$	0.50
Expected volatility	103%		141%
Remaining term (years)	2.52		3.52
Risk-free rate	1.47%		1.31%
Expected dividend yield	0%		0%

The fair value of the 2013 Restructuring Warrants decreased \$2 million for the year ended December 31, 2016 and increased \$3.3 million and \$0.9 for the years ended December 31, 2015 and 2014, respectively, which has been recognized in the accompanying statements of operations.

9. Income Taxes

The components of our income tax benefit in 2016 and 2015 are as follows:

	2016	2015
Current Tax Benefit		
Federal	\$	\$
State		(585
		(585
Deferred Tax Expense (Benefit)		
Federal		
State		
Total Tax Benefit	\$	\$ (585

As of December 31, 2016, we have available unused federal net operating loss (NOL) carry-forwards of \$366 million, which will expire in various years from 2018 to 2036. We have New York NOL carry-forwards of \$306 with the remainder expiring in various years from 2018 through 2036. We have New Jersey NOL carry-forwards of \$10 million, which will expire in various years from 2020 through 2023.

As of December 31, 2016, we have Research and Development tax credit carryforwards of \$11 million which will expire in various years from 2018 to 2032.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

The effective rate differs from the statutory rate of 34% for 2016, 2015 and 2014 primarily due to the following:

	2016	2015	2014
Statutory Rate on pre-tax book loss	(34.00%)	(34.00%)	(34.00%)
Stock option issuance	0.48%	0.14%	0.09%
Sale of NJ NOL s	0.00%	1.05%	2.51%
Disallowed interest	2.63%	0.10%	0.51%
Derivatives	(30.94%)	11.72%	14.75%
Expired net operating losses and credits	0.00%	0.00%	2.74%
State Tax benefit of Sale of NJ NOL	0.00%	(1.45%)	(7.37%)
State Tax benefit other	(10.80%)	(3.85%)	(2.82%)
True-ups and adjustments	2.62%	(0.57%)	0.02%
Change in federal valuation allowance	70.01%	25.42%	16.22%
	0.00%	(1.44%)	(7.35%)

The tax effect of temporary differences, net operating loss carry-forwards, and research and experimental tax credit carryforwards as of December 31, 2016 and 2015 is as follows:

Deferred tax assets and valuation allowance:

	Dece	mber 31,	
	2016	2015	
	(in th	ousands)	
Current deferred tax asset:			
Accrued liabilities	\$ 97	\$ 111	
Inventory reserve	225		
Valuation allowance	(322)	(11)	

Net current deferred tax asset

Non-current deferred tax assets:		
Fixed and intangible assets	13	11
Net operation loss carry-forwards	124,945	122,205
AMT credit carry-forwards	74	74
Capital loss and charitable carry-forwards	14	13
Research and experimental tax credits	11,021	11,021
Stock compensation	665	586
Deferred revenue	22,213	22,213
Interest	10,866	6,870
Valuation allowance	\$ (169,811)	\$ (162,993)

Net non-current deferred tax asset

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Future ownership changes may limit the future utilization of these net operating loss and research and development tax credit carry-forwards as defined by the Internal Revenue Code. We performed an in-depth analysis and determined that the net operating losses and research and development expenses are not limited

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

under Section 382. The net deferred tax asset has been fully offset by a valuation allowance due to our history of taxable losses and uncertainty regarding our ability to generate sufficient taxable income in the future to utilize these deferred tax assets.

We apply the provisions of ASC 740-10-25 which provides recognition criteria and a related measurement model for uncertain tax positions taken or expected to be taken in income tax returns. ASC 740-10-25 requires that a position taken or expected to be taken in a tax return be recognized in the financial statements when it is more likely than not that the position would be sustained upon examination by tax authorities. Tax positions that meet the more likely than not threshold are then measured using a probability weighted approach recognizing the largest amount of tax benefit that is greater than 50% likely of being realized upon ultimate settlement. The Company had no tax positions relating to open income tax returns that were considered to be uncertain. Accordingly, we have not recorded a liability for unrecognized tax benefits upon adoption of ASC 740-10-25. There continues to be no liability related to unrecognized tax benefits at December 31, 2016.

The Company s 2013, 2014 and 2015 Federal, New York and New Jersey tax returns remain subject to examination by the respective taxing authorities. In addition, net operating losses and research tax credits arising from prior years are also subject to examination at the time that they are utilized in future years. Neither the Company s federal or state tax returns are currently under examination.

10. Stockholders Deficit

Our certificate of incorporation provides for the issuance of 4,000,000 shares of preferred stock with the rights, preferences, qualifications, and terms to be determined by our Board of Directors. As of December 31, 2016 and 2015, there were no shares of preferred stock outstanding.

On June 5, 2014, the Company filed with the Secretary of the State of Delaware a Certificate of Amendment (the Certificate of Amendment) to its Amended and Restated Certificate of Incorporation, increasing the number of authorized shares of common stock from 200,000,000 to 400,000,000 shares and increasing the number of authorized shares of preferred stock from 2,000,000 to 4,000,000 shares.

11. Stock-Based Compensation Plans

Total compensation expense recorded during the years ended December 31, 2016, 2015 and 2014 for share-based payment awards was \$0.3 million, \$0.4 million and \$0.2 million, respectively. At December 31, 2016, total unrecognized estimated compensation expense related to non-vested stock options granted prior to that date was approximately \$0.4 million, which is expected to be recognized over a weighted-average period of 1.53 years. No tax benefit was realized due to a continued pattern of operating losses. We have a policy of issuing new shares to satisfy share option exercises. No options were exercised during the years ended December 31, 2016 and 2015.

During the year ended December 31, 2015, the Company granted 1,785,000 options which included: 40,000 options to Michael Garone, former Chief Financial Officer (valued on the grant date of January 14, 2015 at \$0.34 using the Black Scholes pricing model); 175,000 options to Timothy Rothwell, Chairman of the Board, 75,000 options to each of the Company s outside directors, 300,000 options to Alan L. Rubino, President and Chief Executive Officer, 150,000 options to Carl Sailer, Vice President, Sales and Marketing, and an additional 40,000 options to Michael Garone, former Chief Financial Officer (valued on the grant date of March 3, 2015 at \$0.55 using the Black Scholes pricing model); 250,000 options to non-executive employees and consultants (valued on the grant date of March 6, 2015 at \$0.59 using the Black Scholes pricing model); an additional 40,000 options to each of the Company s outside directors (valued on the grant date of May 20, 2015, at \$0.50); an additional 175,000 options to Timothy Rothwell, Chairman of the Board, (valued on the grant date of September 14, 2015 at \$0.60 using the Black Scholes pricing model); and an additional 40,000 options to Carl Sailer, Vice President, Sales and Marketing, (valued on the grant date of October 15, 2015 at \$0.59 using the Black Scholes pricing model).

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

During the year ended December 31, 2016, the Company granted 40,000 options to Mr. Michael Garone (valued on the grant date of January 14, 2016 at \$0.61 using the Black Scholes pricing model). Mr. Garone resigned from Emisphere and his official last day of employment was June 24, 2016 (Separation Date). His unexercised, vested options were due to expire on September 25, 2016 (90 days from separation). On September 20, 2016 the Company entered into a separation agreement with Michael Garone. The Company agreed to extend the period of time during which any and all of his unexpired, vested and unexercised stock options may be exercisable to March 21, 2017 (a six-month extension). The Company calculated the incremental fair value equal to the difference between the fair value of the modified award and the fair value of the original award. The incremental fair value of \$7 thousand was expensed immediately. In addition, the Company granted 240,000 options which included 40,000 options to each of the Company s outside directors (valued on the grant date of May 25, 2016, at \$0.73 using the Black Scholes pricing model).

Using the Black-Scholes model, we have estimated our stock price volatility using the historical volatility in the market price of our common stock for the expected term of the option. The risk-free interest rate is based on the yield curve of U.S. Treasury STRIP securities for the expected term of the option. We have never paid cash dividends and do not intend to pay cash dividends in the foreseeable future. Accordingly, we assumed a 0% dividend yield. The forfeiture rate is estimated using historical option cancellation information, adjusted for anticipated changes in expected exercise and employment termination behavior. Forfeiture rates and the expected term of options are estimated separately for groups of employees that have similar historical exercise behavior. The ranges presented below are the result of certain groups of employees displaying different behavior.

The following weighted-average assumptions were used for grants made under the stock option plans for the years ended December 31, 2016, 2015 and 2014:

		2016		
	Directors	Executives	Employees	
Expected volatility	143.91%	145.82%		
Expected term	6.8 years	6.8 years		
Risk-free interest rate	1.69%	1.87%		
Dividend yield	0%	0%		
Annual forfeiture rate	14.5%	14.5%		

		2015	
	Directors	Executives	Employees
Expected volatility	147.57-148.95%	145.87-148.05%	148.06%
Expected term	6.8 years	6.8 years	6.8 years
Risk-free interest rate	1.83-1.93%	1.58-1.90%	1.99%
Dividend yield	0%	0%	0%
Annual forfeiture rate	14.5%	14.5%	14.5%

	2014		
	Directors	Executives	Employees
Expected volatility	143.09-145.11%	142.69%	145.03%
Expected term	6.8 years	6.8 years	6.8 years
Risk-free interest rate	1.97-2.20%	2.22%	1.75%
Dividend yield	0%	0%	0%
Annual forfeiture rate	14.5%	14.5%	14.5%

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Stock Option Plans. On April 20, 2007, the stockholders approved the 2007 Stock Award and Incentive Plan (the 2007 Plan). The 2007 Plan provides for grants of options, stock appreciation rights, restricted stock, deferred stock, bonus stock and awards in lieu of obligations, dividend equivalents, other stock based awards and performance awards to executive officers and other employees of the Company, and non-employee directors, consultants and others who provide substantial service to us. The 2007 Plan provides for the issuance of 9,259,476 shares as follows: 7,500,000 new shares, 1,358,406 shares remaining and transferred from the Company s 2000 Stock Option Plan (the 2000 Plan) (which was then replaced by the 2007 Plan) and 401,070 shares remaining and transferred from the Company s Stock Option Plan for Outside Directors (the Directors Stock Plan). In addition, shares cancelled, expired, forfeited, settled in cash, settled by delivery of fewer shares than the number under the 2000 Plan will become available for issuance under the 2007 Plan once registered. As

underlying the award, or otherwise terminated under the 2000 Plan will become available for issuance under the 2007 Plan, once registered. As of December 31, 2016, 2,896,683 shares remain available for issuance under the 2007 Plan. Generally, the options vest at the rate of 20% per year and expire within a five-to-ten-year period, as determined by the compensation committee of the Board of Directors and as defined by the Plans.

The Company also has grants outstanding under its expired and terminated 2000 Stock Option Plan (the 2000 Plan). Under our 2000 Plan a maximum of 1,945,236 shares of our common stock were available for issuance. The 2000 Plan was available to employees, directors and consultants. The 2000 Plan provides for the grant of either ISOs, as defined by the Internal Revenue Code, or non-qualified stock options, which do not qualify as ISOs. Generally, the options vest at the rate of 20% per year and expire within a five- to ten-year period, as determined by the compensation committee of the Board of Directors and as defined by the Plans. As of December 31, 2016, 50,000 options remained outstanding under the 2000 Plan.

Transactions involving stock options awarded under the Plans described above during the years ended December 31, 2016, 2015 and 2014 are summarized as follows:

	Number of Shares	Av Ex	ighted erage ercise rice	Weighted Average Remaining Contractual Term in Years	Int V	regate rinsic alue ousands)
Outstanding at December 31, 2013	4,340,750	\$	0.90	7.8	\$	56
Granted	495,000	\$	0.31			
Expired	(2,000)	\$	5.20			
Forfeited	(13,000)	\$	0.67			
Outstanding at December 31, 2014	4,820,750	\$	0.84	7.1	\$	223
Granted	1,785,000	\$	0.57			
Expired	(58,500)	\$	4.81			
Outstanding at December 31, 2015	6,547,250	\$	0.73	7.0	\$	969
Granted	280,000	\$	0.76			
Expired	(26,600)	\$	8.24			
Forfeited	(413,817)	\$	1.26			
Outstanding at December 31, 2016	6,386,833	\$	0.67	6.1	\$	956
· ····································	-,	-			Ŧ	
Vested and exercisable at December 31, 2016	5,180,157	\$	0.69	5.6	\$	923
, ested and exercisable at December 51, 2010	5,100,157	Ψ	0.07	5.0	Ψ	125
Vested and expected to yest at December 21, 2016	6 245 806	\$	0.67	6.1	\$	953
Vested and expected to vest at December 31, 2016	6,245,896	Ф	0.07	0.1	Ф	933

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

The weighted-average grant date fair value of options granted during the years ended December 31, 2016, 2015 and 2014 and was \$0.72, \$0.54 and \$0.29, respectively.

Outside Directors Plan. We previously issued options to outside directors who are neither officers nor employees of Emisphere nor holders of more than 5% of our common stock under the Directors Stock Plan. As amended, a maximum of 725,000 shares of our common stock were available for issuance under the Outside Directors Plan in the form of options and restricted stock. The Directors Stock Plan expired on January 29, 2007. Options and restricted stock are now granted to directors under the 2007 Plan discussed above.

Transactions involving stock options awarded under the Directors Stock Plan during the years ended December 31, 2016, 2015 and 2014 are summarized as follows:

	Number of Shares	Av	righted /erage rise Price	Weighted Average Remaining Contractual Term in Years	Aggregate Intrinsic Value (In thousands)
Outstanding at December 31, 2013	21,000	\$	8.97	2.7	
Outstanding at December 31, 2014	21,000	\$	8.97	1.4	
Outstanding at December 31, 2015	21,000	\$	8.97	0.4	
Expired	(21,000)	\$	8.97		
Outstanding at December 31, 2016		\$			
					¢
Vested and Exercisable at December 31, 2016		\$			\$

Non-Plan Options. Our Board of Directors previously granted options (Non-Plan Options) to two consultants. The Board of Directors determines the number and terms of each grant (option exercise price, vesting, and expiration date). There were no awards outstanding as of December 31, 2016, 2015 and 2014.

12. Collaborative Research Agreements

We are a party to collaborative agreements with corporate partners to provide development and commercialization services relating to the collaborative products. These agreements are in the form of research and development collaboration and licensing agreements. In connection with these agreements, we have granted licenses or the rights to obtain licenses to our oral drug delivery technology. In return, we are entitled to receive certain payments upon the achievement of milestones and will receive royalties on sales of products should they be commercialized. Under these agreements, we are entitled to also be reimbursed for research and development costs. We also have the right to manufacture and supply delivery agents developed under these agreements to our corporate partners.

We also perform research and development for others pursuant to feasibility agreements, which are of short duration and are designed to evaluate the applicability of our drug delivery agents to specific drugs. Under the feasibility agreements, we are generally reimbursed for the cost of work performed.

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All of our collaborative agreements are subject to termination by our corporate partners without significant financial penalty to them. Milestone and upfront payments received in connection with these agreements was \$0.0 million, \$14.0 million, and \$0.0 million in the years ended December 31, 2016, 2015 and, 2014, respectively. There were no expenses incurred in connection with these agreements in the years ended December 31, 2016, 2015 and 2014. Significant agreements are described below.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Novo Nordisk Agreements

GLP-1 License Agreement

On June 21, 2008, we entered into an exclusive Development and License Agreement with Novo Nordisk pursuant to which Novo Nordisk will develop and commercialize oral formulations of Novo Nordisk proprietary products in combination with Emisphere carriers (the GLP-1 License Agreement). Emisphere received approximately \$32.6 million as of December 31, 2016, and could receive up to an additional \$60 million in contingent product development and sales milestone payments under the terms of the GLP-1 License Agreement. Emisphere would also be entitled to receive royalties on sales in the event Novo Nordisk commercializes products developed under such agreement. Under the terms of the GLP-1 License Agreement, Novo Nordisk is responsible for the development and commercialization of the products. Initially Novo Nordisk is focusing on the development of oral formulations of its proprietary GLP-1 receptor agonists. In January 2010, Novo Nordisk had its first Phase I clinical trial with a long acting oral GLP-1 receptor agonist. This milestone released a \$2 million payment to Emisphere.

The GLP-1 License Agreement includes multiple deliverables including the license grant, several versions of the Company s Eligen Technology (or carriers), support services and manufacturing. Emisphere management reviewed the relevant terms of the GLP-1 License Agreement and determined that such deliverables should be accounted for as a single unit of accounting in accordance with FASB ASC 605-25, *Multiple-Element Arrangements*, since the delivered license and Eligen® Technology do not have stand-alone value and Emisphere does not have objective evidence of fair value of the undelivered Eligen® Technology or the manufacturing value of all the undelivered items. Such conclusion will be reevaluated as each item in the arrangement is delivered. Consequently, any payments received from Novo Nordisk pursuant to such agreement, including the initial \$10 million upfront payment and any payments received for support services, will be deferred and included in Deferred Revenue within our balance sheet. Management cannot currently estimate when all of such deliverables will be delivered nor can they estimate when, if ever, Emisphere will have objective evidence of the fair value for all of the undelivered items, therefore all payments from Novo Nordisk are expected to be deferred for the foreseeable future.

On April 26, 2013, the Company entered into an Amendment No. 2 (the Amendment) to the GLP-1 License Agreement. The Amendment provides, among other things, for a payment of \$10 million from Novo Nordisk to the Company as a prepayment for the achievement of certain development milestones that would have otherwise become payable to the Company under the GLP-1 License Agreement in exchange for a reduction in the rate of potential future royalty payments as provided in the GLP-1 License Agreement. The \$10 million payment from Novo Nordisk was received by the Company on May 6, 2013, and recorded as deferred revenue.

On October 14, 2015, we amended the GLP-1 License Agreement for a third time to provide for, among other things, a payment of \$9.0 million to us from Novo Nordisk as prepayment of a product development milestone that would have otherwise become payable to the Company under the GLP-1 License Agreement and in exchange for a reduction in certain future royalty payments. The \$9.0 million payment from Novo Nordisk was received October 26, 2015, and recorded as deferred revenue.

On December 31, 2016, we further amended the GLP-1 License Agreement to provide for the direct payment by Novo Nordisk to MHR of 0.5% of net sales for any licensed product subject to the GLP-1 Agreement, which represents the portion of Emisphere s royalty assigned to MHR in consideration of the debt modifications (see note 7).

As of December 31, 2016 and 2015, total deferred revenue from the GLP-1 License Agreement was \$32.6 million, comprised of the \$9.0 million prepayment received October 26, 2015, the \$10.0 million prepayment received April 26, 2013, the \$10.0 million non-refundable license fee, \$2 million milestone payment and \$1.6 million in support services.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Expansion License Agreement

On October 14, 2015, we also entered into a new Development and License Agreement with Novo Nordisk (the Expansion License Agreement) to develop and commercialize oral formulations of four classes of Novo Nordisk s investigational molecules targeting major metabolic disorders, including diabetes and obesity, using our oral Eligen® Technology. Under the terms of the Expansion License Agreement, we licensed to Novo Nordisk the exclusive right to develop potential product candidates in three molecule classes, and the non-exclusive right to develop potential product candidates in a fourth molecule class, using the Eligen[®] Technology. Pursuant to the Expansion License Agreement, we received a \$5.0 million upfront licensing fee, and are eligible to receive up to \$62.5 million in development and sales milestone payments for each of the three exclusively licensed molecule classes, and up to \$20 million in development milestone payments for the non-exclusively licensed molecule class. Additionally, we are eligible to receive royalties on sales of each successfully commercialized product. Novo Nordisk is solely responsible for the development and commercialization of all product candidates. In addition, Emisphere granted Novo Nordisk the option to obtain exclusive and non-exclusive rights to develop and commercialize oral formulations of additional investigational molecules for the treatment of diabetes, obesity, and indications in other important therapeutic areas using the Eligen® Technology. If Novo Nordisk exercises its option to develop and commercialize any additional investigational molecules, we would be entitled to receive an additional payment upon the exercise of each option for exclusive or non-exclusive development rights for each molecule class. We are eligible to receive up to \$62.5 million in development and sales milestone payments for each additional exclusively licensed molecule class, and up to \$20 million in development milestone payments for each additional non-exclusively licensed molecule class, plus royalties on sales of each commercialized product. The agreement remains in effect, on a country-by-country basis, for the longer of 10 years from the date of first sale of a licensed product in such country, or the date of expiration of the last-to-expire patent covered by the agreement in such country. Novo Nordisk may terminate this agreement with 90 days prior notice. We may terminate this agreement in the event that Novo Nordisk challenges the validity of any licensed patent under the agreement, but only with respect to the patents belonging to the patent family of the challenged patent. Either party may also terminate the agreement upon the other party s material breach, if not cured within a specified period of time. Upon a termination of the agreement by Emisphere for Novo Nordisk s breach, all intellectual property rights conveyed under the agreement shall revert back to us.

As of December 31, 2016 and 2015, total deferred revenue from the Expansion License Agreement was \$5.0 million, comprised of the non-refundable, non-creditable license fee.

Insulins License Agreement

On December 20, 2010, we entered into an exclusive Development and License Agreement with Novo Nordisk, pursuant to which we granted to Novo Nordisk an exclusive license to develop and commercialize oral formulations of Novo Nordisk s insulins, using the Company s proprietary delivery agents (the Insulins License Agreement). The Insulins License Agreement includes \$57.5 million in potential product development and sales milestone payments including a \$5.0 million non- refundable, non-creditable license fee. Emisphere would also be entitled to receive royalties in the event Novo Nordisk commercializes products developed under such the Insulins License Agreement.

The Insulins License Agreement includes multiple deliverables including the license grant, several versions of the Company s Eligen Technology (or carriers), support services and manufacturing. Emisphere management reviewed the relevant terms of the Novo Nordisk agreement and determined that such deliverables should be accounted for as a single unit of accounting in accordance with FASB ASC 605-25, *Multiple-Element Arrangements*, since the delivered license and Eligen[®] Technology do not have stand-alone value and Emisphere does not have objective evidence of fair value of the undelivered Eligen[®] Technology or the manufacturing value of all the undelivered items. Such conclusion will be reevaluated as each item in the arrangement is delivered.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Consequently, any payments received from Novo Nordisk pursuant to such agreement, including the initial \$5.0 million upfront payment and any payments received for support services, will be deferred and included in Deferred Revenue within our balance sheet. Management cannot currently estimate when all of such deliverables will be delivered nor can they estimate when, if ever, Emisphere will have objective evidence of the fair value for all of the undelivered items, therefore all payments from Novo Nordisk are expected to be deferred for the foreseeable future.

As of December 31, 2016 and 2015, total deferred revenue from the Insulins License Agreement was \$5.0 million, comprised of the non-refundable, non-creditable license fee.

Novartis Agreements

Salmon Calcitonin Agreements

We have collaborated with Novartis in connection with the development and testing of oral formulations of salmon calcitonin (sCT) to treat osteoarthritis and osteoporosis (the Salmon Calcitonin Program). We entered into a Research Collaboration and Option Agreement, dated as of December 3, 1997, as amended on October 20, 2000 (the Salmon Calcitonin Option Agreement) with Novartis to develop an oral form of sCT. Pursuant to the Salmon Calcitonin Option Agreement, the Company granted Novartis the option to acquire from the Company a license to develop and commercialize oral sCT utilizing Emisphere s Eligen Technology and the right to commence research collaboration with the Company with respect to a second compound, in exchange for certain option exercise payments. Novartis also agreed to reimburse the Company with respect to certain research and development costs incurred by the Company in connection with the sCT Program. Furthermore, under the Salmon Calcitonin Option Agreement, the Company is obligated to help to manage this program through a joint steering committee with Novartis. The Salmon Calcitonin Option Agreement expires upon the expiration of the last to expire of the patents of the Company described therein, subject to certain early termination rights, including termination by either party for material breach of the other party and termination by Novartis in favor of a license executed thereunder.

On December 14, 2011, the Company announced that Novartis had informed the Company that it will not pursue further clinical development of the investigational drug SMC021 (oral calcitonin) as a treatment option in osteoarthritis and for post-menopausal osteoporosis and that it will not seek regulatory submission for SMC021 in either indication.

Although Novartis has not informed Emisphere of its intention to terminate the Salmon Calcitonin Option Agreement and the Salmon Calcitonin License Agreement, in the likely event that Novartis determines to terminate these agreements, we will reacquire the rights to our technology licensed to Novartis thereunder.

Oral PTH-1-34 Agreements

We have collaborated with Novartis in connection with the development and testing of oral formulations of PTH-1-34 (PTH) to treat osteoarthritis and osteoporosis (the PTH Program). On December 1, 2004, we entered into a Research Collaboration Option and License Agreement with Novartis whereby Novartis obtained an option to license our existing technology to develop oral forms of PTH 1-34 (the PTH Option Agreement). On March 7, 2006, Novartis exercised its option to the license but subsequently terminated development activities and anticipates no further work on the oral formulation of PTH Program. Although Novartis has not informed Emisphere of its intention to terminate the PTH Option Agreement in accordance with relevant terms thereunder, Emisphere would reacquire the rights to develop and/or commercialize the product should Novartis so terminate the Agreement.

Total deferred revenue as of December 31, 2016 and 2015 related to Novartis agreements was \$13.0 million.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

13. Defined Contribution Retirement Plan

We have a defined contribution retirement plan (the Retirement Plan), the terms of which, as amended, allow eligible employees who have met certain age and service requirements to participate by electing to contribute a percentage of their compensation to be set aside to pay their future retirement benefits, as defined by the Retirement Plan. We have agreed to make discretionary contributions to the Retirement Plan. For the years ended December 31, 2016, 2015 and 2014, we made contributions to the Retirement Plan totaling approximately \$0.03 million, \$0.04 million and \$0.04 million, respectively.

14. Net Loss Per Share

The following table sets forth the information needed to compute basic and diluted earnings per share for the years ended December 31, 2016, 2015 and 2014:

	Year Ended December 31,			
	2016	2015	2014	
	(In thous	ands, except per share a	mounts)	
Net loss	\$ (10,041)	\$ (40,381)	\$ (25,380)	
Net loss per common share, basic and diluted:				
Weighted average common shares outstanding, basic	60,687,478	60,687,478	60,687,478	
Net loss per share, basic and diluted	\$ (0.17)	\$ (0.67)	\$ (0.42)	

The following table sets forth the number of potential shares of common stock that have been excluded from diluted net loss per share because their effect was anti-dilutive:

	Year Ended December 31,		
	2016	2015	2014
Options to purchase common shares	6,386,833	6,547,250	4,820,750
Outstanding warrants and options to purchase warrants	21,997,775	25,008,082	27,443,728
Amended and Restated Convertible notes	42,373,002	37,233,561	32,717,484
Amended and Restated Reimbursement notes	1,671,632	1,510,682	1,365,606
Amended and Restated Bridge notes	4,824,006	4,229,826	3,710,158
	77,253,248	74,529,401	70,057,726

15. Commitments and Contingencies

Commitments.

We lease office space at 4 Becker Farm Road, Roseland, NJ under a non-cancellable operating lease expiring in 2017.

As of December 31, 2016, future minimum rental payments are as follows:

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Years Ending December 31,

	(In	thousands)
2017	\$	74
Total	\$	74

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

Rent expense for the years ended December 31, 2016, 2015 and 2014 was \$0.1 million, \$0.1 million and \$0.1 million, respectively. Additional charges under this lease for real estate taxes and common maintenance charges for the years ended December 31, 2016, 2015 and 2014, were \$0.3 million, \$0.04 million and \$0.04 million, respectively.

The Company evaluates the financial consequences of legal actions periodically or as facts present themselves and records accruals to account for its best estimate of future costs accordingly.

Contingencies. In the ordinary course of business, we enter into agreements with third parties that include indemnification provisions which, in our judgment, are normal and customary for companies in our industry sector. These agreements are typically with business partners, clinical sites, and suppliers. Pursuant to these agreements, we generally agree to indemnify, hold harmless, and reimburse indemnified parties for losses suffered or incurred by the indemnified parties with respect to our product candidates, use of such product candidates, or other actions taken or omitted by us. The maximum potential amount of future payments we could be required to make under these indemnification provisions is unlimited. We have not incurred material costs to defend lawsuits or settle claims related to these indemnification provisions. As a result, the estimated fair value of liabilities relating to these provisions is minimal. Accordingly, we have no liabilities recorded for these provisions as of December 31, 2016.

As a condition to MHR entering into the Loan Agreement and amending and restating the MHR Notes, the Company and MHR entered into a Royalty Agreement (the Royalty Agreement) on August 20, 2014, providing for the payment by the Company to MHR of certain royalties on the terms and conditions set forth therein (see Note 7). Under the terms of the Royalty Agreement, the Company agreed to pay to MHR, subject to the terms and conditions of the Royalty Agreement, royalties in perpetuity (the Royalties), commencing as of the date of the Royalty Agreement, in an amount equal to: twenty percent (20%) of all Net Product Sales (as defined in the Royalty Agreement) and any third party payments arising in connection with the sale of the B12 Product and related products, during any fiscal year; provided that, from and after October 1, 2015, if no amount of indebtedness is outstanding under the Loan 13 Table of Contents Agreement (the Indebtedness Repayment Condition), such amount shall be reduced to (i) five percent (5%) of all Net Sales and third party payments commencing with the first quarter immediately following the quarter in which the Indebtedness Repayment Condition is satisfied, or (ii) two and one half percent (2.5%) of all Net Sales commencing with the quarter immediately following the quarter in which the Indebtedness Repayment Condition is satisfied, but only with respect to the Net Sales made in any country in which there was not a Valid Patent Claim (as defined in the Royalty Agreement) and where generic entry of a competitive product not by the Company or its affiliates that does not infringe a Valid Patent Claim in such country has occurred, in each case as of the last day of such Fiscal Quarter. Once the royalty rate has been reduced to 5%, the rate shall not be reinstated to 20% even if amounts become outstanding under the Loan Agreement as a result of Paid-In-Kind Royalties. Payments of Royalties shall be made in cash to the extent such Royalties do not cause the Company s cash as of the end of any year to be less than the Minimum Cash Balance, and otherwise shall be paid as Paid-In-Kind Royalties. As part of the December 2016 Debt Modification, MHR irrevocably waived any and all rights to the \$.2 million of royalties due them for the year ended December 31, 2015.

In the normal course of business, we may be confronted with issues or events that may result in a contingent liability. These generally relate to lawsuits, claims, environmental actions or the action of various regulatory agencies. If necessary, management consults with counsel and other appropriate experts to assess any matters that arise. If, in our opinion, we have incurred a probable loss as set forth by accounting principles generally accepted in the U.S., an estimate is made of the loss and the appropriate accounting entries are reflected in our financial statements.

EMISPHERE TECHNOLOGIES, INC.

NOTES TO FINANCIAL STATEMENTS (Continued)

16. Fair Value

In accordance with FASB ASC 820, *Fair Value Measurements and Disclosures*, the following table represents the Company s fair value hierarchy for its financial liabilities measured at fair value on a recurring basis as of December 31, 2016 and 2015:

December 31, 2016	 evel 2 iousands)	-	Level 3 housands)	(in t	Total housands)
Derivative instruments	\$ 7,999	\$	35,195	\$	43,194

December 31, 2015:	Level 2	Level 3	Total
	(in thousands)	(in thousands)	(in thousands)
Derivative instruments	\$ 12,343	\$ 35,623	\$ 47,966

Level 3 financial instruments consist of common stock warrants and embedded conversion features. The fair value of these warrants and embedded conversion features that have exercise reset features are estimated using a Monte Carlo valuation model. The unobservable input used by the Company was the estimation of the likelihood of a reset occurring on the embedded conversion feature of the Convertible Notes, the embedded conversion feature of the Reimbursement Notes, the embedded conversion feature of the Bridge Notes, and the embedded feature of Amended and Restated June 2010 Warrants. These estimates of the likelihood of completing an equity raise that would meet the criteria to trigger the reset provisions are based on numerous factors, including the remaining term of the financial statements and the Company s overall financial condition.

The following table summarizes the changes in fair value of the Company s Level 3 financial instruments for the years ended December 31, 2016 and 2015:

	Year Ended December 31,	
	2016	2015
Beginning Balance	\$ 35,623	\$ 24,414
Derivative liability of embedded conversion feature of the Bridge Notes	297	377
Derivative liability of embedded conversion feature of the Reimbursement Notes	41	105
Derivative liability of embedded conversion feature of the Convertible Notes	4,027	3,648
Change in fair value	(4,793)	7,079
Ending Balance	\$ 35,195	\$ 35,623

Changes in the unobservable input values would likely cause material changes in the fair value of the Company s Level 3 financial instruments. The significant unobservable input used in the fair value measurement is the estimation of the likelihood of the occurrence of a change to the contractual terms of the financial instruments. A significant increase (decrease) in this likelihood would result in a higher (lower) fair value measurement.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE None.

ITEM 9A. CONTROLS AND PROCEDURES Evaluation of Disclosure Controls and Procedure

The Company s senior management is responsible for establishing and maintaining a system of disclosure controls and procedures (as defined in Rule 13a-15 and 15d-15 under the Securities Exchange Act of 1934 (the Exchange Act)) designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by an issuer in the reports that it files or submits under the Exchange Act is accumulated and communicated to the issuer s management, including its principal executive officer or officers and principal financial officer or officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

The Company has evaluated the effectiveness of the design and operation of its disclosure controls and procedures under the supervision of and with the participation of management, including its Chief Executive Officer and Interim Chief Accounting Officer, as of the end of December 31, 2016. Based on that evaluation, our Chief Executive Officer and Interim Chief Accounting Officer have concluded that our disclosure controls and procedures are effective.

Changes in Internal Control over Financial Reporting

There have been no changes in the Company s system of internal controls over financial reporting during the three-month period ended December 31, 2016 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Our management does not expect that our disclosure controls and procedures or internal controls over financial reporting will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the system are met and cannot detect all deviations. 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 or deviations, if any, within the company have been detected. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management s Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Our management has conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework established in *Internal Control* Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework). Based on that evaluation, our management has concluded that our internal control over financial reporting was effective as of December 31, 2016.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. 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.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE Director and Executive Officer Information

Information regarding those directors serving unexpired terms and our current Executive Officers, as such term is defined in Regulation S-K under the Exchange Act, all of whom are currently serving open-ended terms, including their respective ages, the year in which each first joined the Company and their principal occupations or employment during the past five years, is provided below:

		Year Joined	
Name	Age	Emisphere	Position with the Company
Alan L. Rubino	62	2012	President and Chief Executive Officer,
			Class II Director
John D. Harkey, Jr.	56	2006	Class I Director
Timothy McInerney	56	2012	Class II Director
Jacob M. Plotsker	49	2012	Class II Director
Mark H. Rachesky, M.D.	58	2005	Class III Director
Timothy G. Rothwell	66	2009	Chairman of the Board of Directors, Class I
			Director
Michael Weiser, M.D., Ph.D.	54	2005	Class III Director

Alan L. Rubino joined Emisphere on September 13, 2012, as President and Chief Executive Officer and, in connection therewith, was appointed as a Class II Director of the Company. His career spans over 30 years at every level of the biopharmaceutical industry. From October 2010 until July 2012, he served as Chief Executive Officer and President of New American Therapeutics, Inc., where he and his team presided over a venture that was focused on the acquisition, marketing, and ultimate sale of Denavir, a leading prescription topical therapeutic for HSV-1 cold sore treatment. From February 2008 to September 2010, Mr. Rubino was CEO and President of Akrimax Pharmaceuticals, Inc., a pharmaceutical company, where he acquired two prescription launch products, NitroMist and Tirosint, which are actively marketed and in growth phases today. Prior to 2008, he was President and Chief Operating Officer of the Pharmos Corporation, which was a development-stage publicly-held pharmaceutical company, where he led the transformation of the company through the acquisition of Vela Pharmaceuticals. Mr. Rubino also spent four years in senior executive leadership positions on the strategic services side at both Cardinal Health and PDI, Inc., both public companies that provided high-level outsourcing offerings to the pharmaceutical industry. A major portion of Mr. Rubino s career includes twenty-four years spent at Hoffmann-La Roche, where he served as a corporate officer and member of the US Executive Committee and held a variety of key senior executive positions with broad general management responsibilities leading major business units and operations, marketing, business development, alliance management, human resources, and supply chain/manufacturing. At Hoffmann-La Roche, Mr. Rubino led many key top level executive initiatives and presided over numerous commercial product launches across a spectrum of therapeutic areas, including the introduction of the world s first biological product in Roferon-A [alfa-interferon 2a]. Currently, Mr. Rubino serves on the Boards of Directors of Aastrom Biosciences (NASDAQ: ASTM) and is Chairman of the Compensation Committee, and on the Board of Directors of SANUWAVE Health, Inc. (SNWV: OTC BB), and Genisphere, Inc., and serves on the Rutgers Business School Board of Advisors.

Timothy G. Rothwell has been a director of the Company since November 2009 and Chairman of the Board of Directors since September 2012. Mr. Rothwell is the former Chairman of Sanofi-Aventis U.S., a pharmaceutical company. From February 2007 to October 2009, Mr. Rothwell served as Chairman of Sanofi-Aventis U.S. From September 2004 to February 2007, Mr. Rothwell was President and Chief Executive Officer of that company, overseeing all domestic commercial operations as well as coordination of Industrial Affairs and Research and Development activities. From May 2003 to September 2004, Mr. Rothwell was President and Chief Executive Officer of Sanofi-Synthelabo, Inc. and was instrumental in the formation of Sanofi-Aventis U.S. in 2004. Prior to that, from January 1998 to May 2003, he served in various capacities at Pharmacia, a

pharmaceutical and biotechnology company, including as President of the company s Global Prescription Business. From January 1995 to January 1998, Mr. Rothwell served as worldwide President of Rhone-Poulenc Rorer Pharmaceuticals and President of the company s Global Pharmaceutical Operations. In his long career, Mr. Rothwell has also served as Chief Executive Officer of Sandoz Pharmaceuticals, Vice President, Global Marketing and Sales at Burroughs Wellcome, and Senior Vice President of Marketing and Sales for the U.S. for Squibb Corporation. Mr. Rothwell holds a Bachelor of Arts from Drew University and earned his J.D. from Seton Hall University. He formerly served on the PhRMA Board of Directors, as well as the Institute of Medicine s Evidence-Based Medicine roundtable, the CEO Roundtable on Cancer, the Healthcare Businesswomen s Association Advisory Board, the Board of Trustees for the Somerset Medical Center Foundation, the Board of Trustees for the HealthCare Institute of New Jersey, as a Trustee of the Corporate Council for America s Children at the Children s Health Fund, the Board of Directors of Agenus (NASDAQ: AGEN), the Board of Directors of New American Therapeutics, on the Board of Visitors for Seton Hall Law School, and was Chairman of the Board of Directors of Archimedes Pharma Ltd. Presently, he is Chairman Emeritus of the Board of Directors of the PheoPara Alliance, a nonprofit 501(c)3 organization. Mr. Rothwell s broad business and leadership experiences in the pharmaceutical industry and his affiliations with industry, educational and healthcare related organizations make him an asset to our Board of Directors. As Chairman of the Board, Mr. Rothwell is extremely conscientious and diligent in keeping the other directors abreast of current operational and oversight issues we face.

John D. Harkey, Jr. has over 25 years of experience as a private investor concentrating in the acquisition, consolidation and management of both public and private companies and has served on our Board of Directors since 2006. He has merged, acquired and/or operated companies in a variety of industries including oil and gas, petrochemical services, telecommunications, restaurants, real estate, and software development. He is formerly the Chairman of the Board of Regency Gas Partners, L.P. (NYSE: RGP) has served on the Board of Directors of Energy Transfer Equity, LP (NYSE: ETE), which specializes in the storage and transportation of natural gas, and Energy Transfer Partners, LP (NYSE: ETP), which operates energy assets. He currently serves on the Board of Directors and Audit Committee of Loral Space & Communications, Inc. (NASDAQ: LORL), a satellite communications company, and on the Board of Directors of the Baylor Health Care System Foundation. He formerly served on Board of Directors of Leap Wireless International, Inc. (NASDAQ: LEAP), which was recently acquired by AT&T for \$4.1 billion. He is also Chairman and Chief Executive Officer of Consolidated Restaurant Companies, Inc., a restaurant operating company. He also serves on the President s Development Council of Howard Payne University, the Executive Board of Circle Ten Council of the Boy Scouts of America, the CEO Advisory Board of Dallas Arboretum and is a member of the World President s Organization. Mr. Harkey obtained a B.B.A. in Business Honors and a J.D. from the University of Texas at Austin, and a M.B.A. from Stanford University School of Business. Mr. Harkey s entrepreneurial background and his business and leadership experiences in a range of different industries make him an asset to our Board of Directors.

Timothy McInerney has been a Director of the Company since March 2012. Mr. McInerney is a principal at Two River, a merchant bank, and a Partner of Riverbank Capital Securities, Inc., an institutional investment advisor. From 1992 to March 2007, Mr. McInerney was a Managing Director of Paramount BioCapital, Inc. where he oversaw the overall distribution of Paramount s private equity product. Prior to 1992, Mr. McInerney was a research analyst focusing on the biotechnology industry at Ladenburg, Thalman & Co. Prior to that, Mr. McInerney held equity sales positions at Bear Stearns & Co. and Shearson Lehman Brothers, Inc. Mr. McInerney also worked in sales and marketing for Bristol-Myers Squibb. Mr. McInerney is currently Chairman of the Board of Directors of Insite Vision, Inc., (OTCBB: INSV), and is a member of the Board of Directors of ZIOPHARM, Inc., (NASDAQ: ZIOP), and Edgemont Pharmaceuticals, LLC. He formerly served on the Board of Directors of Manhattan Pharmaceuticals, Inc., (OTCBB: TGTX). Mr. McInerney received his B.S. in pharmacy from St. John s University at New York. He also completed a post-graduate residency at the New York University Medical Center in drug information systems. Mr. McInerney s knowledge of the pharmaceutical industry and capital markets, and affiliations with the financial community make him an asset to our Board of Directors.

Jacob Plotsker has been a director of the Company since March 2012. Mr. Plotsker is currently President of Cambridge Sage Group, LLC, a strategic consulting firm focused on the pharmaceutical industry. Mr. Plotsker

was previously Director of IUS Strategy and Life Cycle Management at Bayer HealthCare. Prior to joining Bayer in 2013 he served from 2009 through 2012 as Senior Director, Commercial Operations and Head of Marketing for Teva Pharmaceuticals Women's Health Division. Prior to joining Teva, Mr. Plotsker was Senior Director, US and Global Marketing at Schering-Plough Corp (previously Organon BioSciences prior to being acquired by Schering-Plough Corp, which was subsequently acquired by Merck & Co., Inc) where he was responsible for commercialization of marketed brands and launch strategy for brands in development. From 1990 to 2006, Mr. Plotsker served in various Finance and Marketing roles at Pfizer, Inc. including Director/Team Leader of the company's Antifungal Franchise. From 1989 to 1990, Mr. Plotsker was an Accountant at Deloitte & Touche. Mr. Plotsker holds a Bachelor of Arts degree in Accounting & Information Systems from Queens College of the City University of New York, a Master of Business Administration in Marketing and Finance from New York University Stern School of Business. From 2008 to 2014 Mr. Plotsker served on the Board of Directors of Sharsheret, a nonprofit 501(c)(3) organization providing support and resources to young women living with breast cancer, and served as President from 2009 through 2012. Mr. Plotsker's experiences in marketing and product commercialization in the pharmaceutical industry, and his affiliations with industry and healthcare related organizations make him an asset to our Board of Directors.

Mark H. Rachesky, M.D. has been a director of the Company since 2005. Dr. Rachesky is the President of MHR Fund Management LLC an investment manager of various private investment funds that invest in inefficient market sectors, including special situation equities and distressed investments. Dr. Rachesky is currently the Non-Executive Chairman of the Board of Directors of Loral Space & Communications Inc. (NASDAQ: LORL), and Lions Gate Entertainment Corp. (NYSE: LGF), and also serves on the Board of Directors of Navistar International Corporation (NYSE:NAV), and Titan International, Inc. (NYSE: TWI). He formerly served on the Board of Directors of Neose Technologies, Inc. (NASDAQ: NTEC) and of Nationshealth, Inc. (formerly quoted on OTCBB: NHRX). Dr. Rachesky was a Director of Leap Wireless International, Inc. (NASDAQ: LEAP) until Leap Wireless International, Inc. merged with AT&T. Dr. Rachesky is a graduate of Stanford University School of Medicine and Stanford University School of Business. Dr. Rachesky graduated from the University of Pennsylvania with a major in Molecular Aspects of Cancer. Dr. Rachesky s extensive investing and financial background, his thorough knowledge of capital markets and his training as a physician, make him an asset to our Board of Directors.

Michael Weiser, M.D., Ph.D. has been a director of the Company since 2005. Dr. Weiser is currently founder and co-chairman of Actin Biomed, a New York based healthcare investment firm advancing the discovery and development of novel treatments for unmet medical needs. Prior to joining Actin Biomed, Dr. Weiser was the Director of Research at Paramount BioCapital where he was responsible for the scientific, medical and financial evaluation of biomedical technologies and pharmaceutical products under consideration for development. Dr. Weiser completed his Ph.D. in Molecular Neurobiology at Cornell University Medical College and received his M.D. from New York University School of Medicine. He performed his post-graduate medical training in the Department of Obstetrics and Gynecology at New York University Medical Center. Dr. Weiser also completed a Postdoctoral Fellowship in the Department of Physiology and Neuroscience at New York University School of Medicine and received his B.A. in Psychology from University of Vermont. Dr. Weiser is a member of The National Medical Honor Society, Alpha Omega Alpha, American Society of Clinical Oncology, American Society of Hematology and Association for Research in Vision and Ophthalmology. In addition, Dr. Weiser has received awards for both academic and professional excellence and is published extensively in both medical and scientific journals. Dr. Weiser currently serves on the board of directors of Chelsea Therapeutics International, (NASDAO: CHTP), and Ziopharm Oncology, Inc., (NASDAQ: ZIOP), as well as several privately held companies. Dr. Weiser formerly served on the Board of Directors of Manhattan Pharmaceuticals, Inc., (OTCBB: TGTX), Hana Biosciences, Inc., (currently known as Talon Therapeutics, Inc., OTCBB: TLON.OB), and Vioquest Pharmaceuticals, Inc., (VOQP: OTC US). Dr. Weiser has an M.D. and a Ph.D., and his scientific, business and financial experiences, as well as his knowledge of the healthcare industry, capital markets, pharmaceutical products and biomedical technology development make him an asset to our Board of Directors.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act, and the rules of the SEC require our directors, Executive Officers and persons who own more than 10% of common stock to file reports of their ownership and changes in ownership of common stock with the SEC. Our employees sometimes prepare these reports on the basis of information obtained from each director and Executive Officer. Based on written representations of the Company s directors and Executive Officers and on confirmation that no Form 5 was required to be filed, we believe that all reports required by Section 16(a) of the Exchange Act to be filed by its directors, Executive Officers and greater than ten (10%) percent owners during the last fiscal year were filed on time.

Code of Conduct for Officers and Employees and Code of Business Conduct and Ethics for Directors

The Company has a Code of Conduct that applies to all of our officers (including our principal executive officer, principal financial officer, and principal accounting officer or controller, or persons performing similar functions) and employees as well as a Code of Business Conduct and Ethics that applies specifically to the members of the Board of Directors. The directors are surveyed annually regarding their compliance with the policies as set forth in the Code of Business Conduct and Ethics for Directors. The Code of Conduct and the Code of Ethics for Directors are available on the Corporate Governance section of our website at www.emisphere.com. The contents of our website are not incorporated herein by reference and the website address provided in this annual report is intended to be an inactive textual reference only. The Company intends to disclose on its website any amendment to, or waiver of, a provision of the Code of Conduct that applies to the Chief Executive Officer, Interim Chief Accounting Officer, or Controller. Our Code of Conduct contains provisions that apply to our Chief Executive Officer, Interim Chief Accounting Officer and all other finance and accounting personnel. These provisions comply with the requirements of a company code of ethics for financial officers that were promulgated by the SEC pursuant to the Exchange Act.

Stockholder Communications

Stockholder inquiries and communications may be directed to our Investor Relations personnel, which facilitates the dissemination of accurate and timely information to our stockholders. In addition, Investor Relations ensures that outgoing information is in compliance with applicable securities laws and regulations. All investor queries should be directed to our President and Chief Executive Officer.

Election of Directors

The Governance and Nominating Committee identifies director nominees by reviewing the desired experience, mix of skills and other qualities to assure appropriate Board composition, taking into consideration the current Board members and the specific needs of the Company and the Board. Among the qualifications to be considered in the selection of candidates, the Committee considers the following attributes and criteria of candidates: experience, knowledge, skills, expertise, diversity, personal and professional integrity, character, business judgment and independence. Although it has no formal policy, our Board recognizes that nominees for the Board should reflect a reasonable diversity of backgrounds and perspectives, including those backgrounds and perspectives with respect to business experience, professional expertise, age, gender and ethnic background.

Our Board is comprised of accomplished professionals who represent diverse and key areas of expertise including national and international business, operations, manufacturing, finance and investing, management, entrepreneurship, higher education and science, research and technology. We believe our directors wide range of professional experiences and backgrounds, education and skills has proven invaluable to the Company and we intend to continue leveraging this strength.

Nominations for the election of directors may be made by the Board of Directors or the Governance and Nominating Committee. The committee did not reject any candidates recommended within the preceding year by a beneficial owner of, or from a group of security holders that beneficially owned, in the aggregate, more than five percent (5%) of the Company s voting stock.

Although it has no formal policy regarding stockholder nominees, the Governance and Nominating Committee believes that stockholder nominees should be viewed in substantially the same manner as other

nominees. Stockholders may make a recommendation for a nominee by complying with the notice procedures set forth in our bylaws. The Governance and Nominating Committee will give nominees recommended by stockholders in compliance with these procedures the same consideration that it gives to any board recommendations. To date, we have not received any recommendation from stockholders requesting that the Governance and Nominating Committee (or any predecessor) consider a candidate for inclusion among the committee s slate of nominees in the Company s proxy statement.

To be considered by the committee, a director nominee must have broad experience at the strategy/policy-making level in a business, government, education, technology or public interest environment, high-level managerial experience in a relatively complex organization or experience dealing with complex problems. In addition, the nominee must be able to exercise sound business judgment and provide insights and practical wisdom based on experience and expertise, possess proven ethical character, be independent of any particular constituency, and be able to represent all stockholders of the Company.

The committee will also evaluate whether the nominee s skills are complementary to the existing Board members skills; the board s needs for operational, management, financial, technological or other expertise; and whether the individual has sufficient time to devote to the interests of Emisphere. The prospective board member cannot be a board member or officer at a competing company nor have relationships with a competing company. He/she must be clear of any investigation or violations that would be perceived as affecting the duties and performance of a director.

The Governance and Nominating Committee identifies nominees by first evaluating the current members of the Board of Directors willing to continue in service. Current members of the Board with skills and experience that are relevant to the business and who are willing to continue in service are considered for re-nomination, balancing the value of continuity of service by existing members of the board with that of obtaining a new perspective. If any member of the board does not wish to continue in service, or if the Governance and Nominating Committee or the board decides not to nominate a member for re-election, the Governance and Nominating Committee identifies the desired skills and experience of a new nominee and discusses with the board suggestions as to individuals that meet the criteria.

The Audit Committee

The Company has a standing Audit Committee established in accordance with Section 3(a)(58)(A) of the Exchange Act. The Audit Committee operates under a written charter adopted by the Board of Directors. The Audit Committee has reviewed the relevant standards of the Sarbanes-Oxley Act of 2002, the rules of the SEC, and the corporate governance listing standards of the NASDAQ regarding committee policies. The committee intends to further amend its charter, if necessary, as the applicable rules and standards evolve to reflect any additional requirements or changes. The updated Audit Committee charter can be found on our website at <u>www.emisphere.com</u>. The contents of our website are not incorporated herein by reference and the website address provided in this Report is intended to be an inactive textual reference only.

The Audit Committee is currently comprised of Timothy McInerney, (chairman), Jacob M. Plotsker, and Michael Weiser, M.D., Ph.D. All of the members of the Audit Committee meet the independence requirements under the applicable provisions of the Exchange Act and regulations promulgated thereunder and the relevant NASDAQ Listing Rules. The Board of Directors has determined that the Company does not currently have an audit committee financial expert, as that term is defined in Item 407(d)(5)(ii) of Regulation S-K, serving on the Audit Committee, as a result of the resignation of the previously designated audit committee financial expert from the Audit Committee.

ITEM 11. EXECUTIVE COMPENSATION Summary Compensation Table 2016, 2015 and 2014

The following table sets forth information regarding the aggregate compensation Emisphere paid during 2016, 2015 and 2014 to our Principal Executive Officer and the two other highest paid Executive Officers:

Name and Principal					Option		
		Salary	Bonus	Stock	Awards	All Other	
Position(1)	Year	(\$)	(\$)(2)	Awards (\$)	(\$)(3)	Compensation (\$)	Total (\$)
Alan L. Rubino,	2016	400,000	100,000	0	0	12,000(4)	512,000
President and CEO	2015	400,000	100,000	0	138,761	12,000(4)	638,671
	2014	400,000	250,000	0	0	12,000(4)	662,000
Michael R. Garone(5),	2016	148,952	0	0	20,702	0	169,654
	2015	265,000	32,500	0	32,031	0	329,531
Chief Financial Officer and Corporate Secretary	2014	265,000	65,000	0	7,533	0	337,533
Carl V. Sailer,	2016	255,000	50,000	0	0	0	305,000
	2015	255,000	34,425	0	88,919	0	378,344
Vice President Sales and Marketing							
	2014	255,000	125,000	0	12,091	0	392,091

- (1) The named executive officers, as defined in Regulation S-K, Item 402(a)(3), of the Company for the year ended December 31, 2016 were as follows: Mr. Rubino and Mr. Garone.
- (2) Represents discretionary bonuses paid to Mr. Rubino, Mr. Garone, and Mr. Sailer in respect of the Company s performance in Calendar 2016, 2015 and 2014.
- (3) Amounts shown in this column represent the aggregate grant date fair value of stock option awards granted during the respective year computed in accordance with Financial Accounting Standards Board ASC Topic 718. For assumptions used in the valuation of these awards please see Note 11 to our Financial Statements. There can be no assurance that these awards will vest or will be exercised (in which case no value will be realized by the individual), or that value upon exercise will approximate the aggregate grant date fair value.
- (4) All other compensation for Mr. Rubino represents an allowance for the use of a personal automobile in accordance with the terms of his employment contract.

(5) Michael Garone resigned from Emisphere Technologies, Inc. and his official last day of employment was June 24, 2016. Compensation Discussion and Analysis

Executive Summary

The discussion that follows outlines the compensation awarded to, earned by or paid to the named executive officers of the Company including a review of the principal elements of compensation, the objectives of the Company s compensation program, what the program is designed to reward and why and how each element of compensation is determined.

In general, the Company operates in a marketplace where competition for talented executives is significant. The Company is engaged in the long-term development of its technology and of drug candidates, without the benefit of significant current revenues, and therefore its operations require it to raise capital in order to continue its activities. Our operations entail special needs and risks and require that the Company attempt to implement programs that promote strong individual and group performance and retention of excellent employees. The Company s compensation

Table of Contents

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program for named executive officers consists of cash compensation as base salary, medical, basic life insurance, long term disability, flexible spending accounts, paid time off, and defined contribution retirement plans as well as long term equity incentives offered through stock option plans. This program is developed in part by benchmarking against other companies in the biotechnology/pharmaceutical sectors, as well as by the judgment and discretion of our Board of Directors.

Employee salaries are benchmarked against Radford survey information.

Discussion and Analysis

Objectives of the compensation and reward program The biopharmaceutical marketplace is highly competitive and includes companies with far greater resources than ours. Our work involves the difficult, unpredictable, and often slow development of our technology and of drug candidates. Continuity of scientific knowledge, management skills, and relationships are often critical success factors to our business. The objectives of our compensation program for named executive officers is to provide competitive cash compensation, competitive health, welfare and defined contribution retirement benefits as well as long-term equity incentives that offer significant reward potential for the risks assumed and for each individual s contribution to the long-term performance of the Company. Individual performance is measured against long-term strategic goals, short-term business goals, scientific innovation, regulatory compliance, new business development, development of employees, fostering of teamwork and other Emisphere values designed to build a culture of high performance. These policies and practices are based on the principle that total compensation should serve to attract and retain those executives critical to the overall success of Emisphere and are designed to reward executives for their contributions toward business performance that is designed to build and enhance stockholder value.

Elements of compensation and how they are determined The key elements of the executive compensation package are base salary (as determined by the competitive market and individual performance), cash bonuses (bonus terms are specified in employment agreements of Executive Officers. Bonus payment criteria are based on business performance objectives established by the Board and Leadership Team. Bonus payment awards are based on achievement of business performance objectives as evaluated by the Compensation Committee with input from the Chairman of the Board and paid at the discretion of the Compensation Committee), the executive long term disability plan and other health and welfare benefits and long-term incentive compensation in the form of periodic stock option grants. The base salary (excluding payment for accrued but unused vacation) for the named Executive Officers for 2016 ranged from \$148,952 for its former Vice President and Chief Financial Officer to \$400,000 for its President and Chief Executive Officer. In determining the compensation for each named Executive Officer, the Company generally considers (i) data from outside studies and proxy materials regarding compensation of executive officers at companies believed to be comparable, (ii) the input of non-executive directors, the Chairman of the Board, and the President and Chief Executive Officer (other than for his own compensation) regarding individual performance of each named executive officer and (iii) qualitative measures of Emisphere s performance, such as progress in the development of the Company s technology, the engagement of corporate partners for the commercial development and marketing of products, effective corporate governance, fiscal responsibility, the success of Emisphere in raising funds necessary to conduct research and development, and the pace at which the Company continues to advance its technologies in various clinical trials. Our board of directors and Compensation Committee s consideration of these factors is subjective and informal. However, in general, it has determined that the compensation for executive officers should be competitive with market data reflected within the 50th-75th percentile of biotechnology companies for corresponding senior executive positions. Compensation levels were derived from the compensation plan set in 2006 and were based in part by information received from executive compensation consultants, Pearl Myer and Partners, based in New York, N.Y. Compensable factors benchmarked include market capitalization, head count and location. When considering the compensation of the Company s President and Chief Executive Officer, the Company receives information and analysis prepared or secured by the Company s outside executive compensation experts and survey data prepared by human resources management personnel as well as any additional outside information it may have available. In addition, the board of directors and Compensation Committee of the Company considered the approval by our stockholders, on an advisory basis, of the compensation of our named executive officers at our most recent annual meeting of stockholders on May 25, 2016, in determining that our executive compensation is in line with our competitive position in the marketplace and appropriately designed to reward executives for their contributions toward overall business performance that ultimately enhances stockholder value.

The compensation program also includes periodic awards of stock options. The stock option element is considered a long-term incentive that further aligns the interests of executives with those of our stockholders and

rewards long-term performance and the element of risk. Stock option awards are made at the discretion of the Board of Directors based on its subjective assessment of the individual contribution of the executive to the attainment of short and long-term Company goals, such as collaborations with partners, attainment of successful milestones under such collaborations and other corporate developments which advance the progress of our technology and drug candidates. Stock option grants to named executive officers in 2016 were made in accordance with the terms of their Employment Agreements described below in **Employment Agreements and Potential Payments Upon Termination or Change-in-Control**, the Company s policy with respect to stock options granted to executives is that grant prices should be equal to the fair market value of the common stock on the date of grant, that employee stock options should generally vest over a three to five-year period and expire in ten years from date of grant, and that options previously granted at exercise prices higher than the current fair market value should not be re-priced. Once performance bonuses or awards are issued, there are currently no policies in place to reduce, restate or otherwise adjust awards if the relevant performance measures on which they are based are restated or adjusted. The Company has no policy to require its named executive officers to hold any specific equity interest in the Company. The Company does not offer its named executive officers any nonqualified deferred compensation, a defined benefit pension program or any post-retirement medical or other benefits.

Section 162(m) of the Internal Revenue Code of 1986, as amended, provides that compensation in excess of \$1,000,000 paid to the Chief Executive Officer or to any of the other four most highly compensated executive officers of a publicly held company will not be deductible for federal income tax purposes, unless such compensation is paid pursuant to one of the enumerated exceptions set forth in Section 162(m). The Company s primary objective in designing and administering its compensation policies is to support and encourage the achievement of the Company s long-term strategic goals and to enhance stockholder value. In general, stock options granted under the Company s 2000 Plan and 2007 Plan are intended to qualify under and comply with the performance based compensation exemption provided under Section 162(m) thus excluding from the Section 162(m) compensation limitation any income recognized by executives at the time of exercise of such stock options. Because salary and bonuses paid to our Chief Executive Officer and four most highly compensated executive officers have been below the \$1,000,000 threshold, the Compensation Committee has elected, at this time, to retain discretion over bonus payments, rather than to ensure that payments of salary and bonus in excess of \$1,000,000 are deductible. The Compensation Committee intends to review periodically the potential impacts of Section 162(m) in structuring and administering the Company s compensation programs.

Grants of Plan-Based Awards 2016

The following table sets forth information regarding grants of plan-based awards in 2016:

Name		Grant Date	All Or Option Awards: Number of Securities Underlying Options (#)	her Exercise or Base Price of Option Awards (\$/Sh)	Grant Date Fair Value of Option Awards
Michael R. Garone,		1/14/2016	40,000	\$ 0.64	\$ 20,702
Former Vice President,					
Chief Financial Officer and					
Corporate Secretary					
Name	Number of Shares Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Unearned Options (#) Unexercisable	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned Options (#)	Option Exercise Price (\$)	Option Expiration Date
Alan L Rubino	500,000		()	\$ 0.09	9/13/2022
President and	500,000			\$ 0.25	9/13/2022
Chief Executive Officer	500,000			\$ 0.75	9/13/2022
	500,000	200,000(1)		\$ 1.00 \$ 0.58	9/13/2022
Michael R. Garone,	100,000 75,000	200,000(1)		\$ 0.58 \$ 4.03	3/3/2025 3/21/2017
Former Vice President,	20,000			\$ 0.62	3/21/2017
Chief Financial Officer,	20,000			\$ 0.02 \$ 1.25	3/21/2017
and Corporate Secretary	30,000			\$ 0.92	3/21/2017
	45,000			\$ 0.20	3/21/2017
	40,000			\$ 0.14	3/21/2017
	40,000			\$ 0.20	3/21/2017
	40,000			\$ 0.36	3/21/2017
	13,333	26,666(2)		\$ 0.58	N/A
	, -	40,000(2)		\$ 0.64	N/A
Carl V. Sailer,	40,000			\$ 0.17	10/15/2022

40,000

40,000

50,000

40,000

100,000(3)

(1) 100,000 exercisable as of March 3, 2017 100,000 exercisable as of March 3, 2018

Vice President,

Sales and Marketing

10/15/2023

10/15/2024

10/15/2025

3/3/2025

\$ 0.18

\$ 0.32

\$ 0.58

\$ 0.59

(2) Forfeited due to resignation

(3) 50,000 exercisable as of March 3, 201750,000 exercisable as of March 3, 2018

Option Exercises and Stock Vested 2016

There were no stock options exercised by named executive officers during 2016. The option for Mr. Rubino to purchase up to an additional 500,000 shares of the Company s common stock at \$1.00 became fully vested and exercisable on September 13, 2016. Additional options for Mr. Rubino s to purchase up to an additional 100,000 shares of the Company s common stock at \$0.58 became fully vested and exercisable on March 3, 2016. Options for Mr. Garone to purchase up to an additional 13,333 shares of the Company s common stock at an exercise price of \$0.58 became fully vested on March 3, 2016. Options for Mr. Sailer to purchase up to an additional 50,000 shares of the Company s common stock at an exercise price of \$0.58 became fully vested on March 3, 2016. Additional options for Mr. Sailer to purchase up to an additional 40,000 shares of the Company s common stock at an exercise price of \$0.59 became fully vested on October 15, 2016.

Separation Agreement 2016

Michael Garone resigned from the Company and his official last day of employment was June 24, 2016. His unexercised, vested options were due to expire on September 25, 2016. On September 20, 2016 the Company entered into a separation agreement with Michael Garone. The Company agreed to extend the period of time during which any and all of his unexpired, vested and unexercised stock options may be exercisable to March 21, 2017 (a six-month extension). ASC 718-20-35-3 states that a modification of the terms or conditions of an equity award shall be treated as an exchange of the original award for a new award. In substance, the entity repurchases the original instrument by issuing a new instrument of equal or greater value, incurring additional compensation cost for any incremental value. The Company calculated the incremental fair value equal to the difference between the fair value of the modified award and the fair value of the original award. The incremental fair value of \$6,866 was expensed immediately because the awards are vested.

Employment Agreements and Potential Payments Upon Termination or Change-in-Control

Employment Agreement with Alan L. Rubino, President and Chief Executive Officer

On September 17, 2012, in connection with his appointment to the position of President and Chief Executive Officer of the Company, effective September 13, 2012, Mr. Rubino entered into an Employment Agreement with the Company dated September 13, 2012 (the Rubino Employment Agreement), which provides as follows:

The initial term of the Rubino Employment Agreement is three years, and the agreement will automatically renew for additional one-year terms unless either party provides notice of non-renewal to the other party at least six months prior to the end of the initial term or any renewal terms.

The Rubino Employment Agreement provides for an annual base salary of \$400,000, with eligibility to receive an annual bonus of up to 50% of his base salary.

Pursuant to the Rubino Employment Agreement, upon termination by the Company without Cause or by Mr. Rubino for Good Reason (as such terms are defined in the Rubino Employment Agreement), subject to the delivery by Mr. Rubino s of a general release of claims in favor of the Company, Mr. Rubino is entitled to (i) severance payments equal to his base salary for 12 months, except in the case of termination by the Company without Cause or termination by Mr. Rubino for Good Reason within 12 months following a Change of Control (as such terms are defined in the Rubino Employment Agreement), in which case Mr. Rubino is entitled to severance payments equal to his base salary for 18 months, (ii) prorated annual bonus payments that Mr. Rubino would have received but for his termination, (iii) prorated equity compensation that Mr. Rubino would have received but for his termination, and (iv) the cost of family health insurance coverage at the same rate as contributed by the Company prior to the termination until the earlier of twelve (12) months or loss of COBRA entitlement. In addition, in the case of Control (as such terms are defined in the Rubino following a Change of Control (as such terms are defined in the Rubino generate as contributed by the Company prior to the termination until the earlier of twelve (12) months or loss of COBRA entitlement. In addition, in the case of Control (as such terms are defined in the Rubino Employment Agreement), Mr. Rubino is entitled to the vesting of all 2,000,000 stock option grants awarded pursuant to the terms of the Rubino Employment, regardless of date or condition of vesting.

Employment Agreement with Michael R. Garone, Former Chief Financial Officer and Corporate Secretary.

On January 14, 2013, the Company entered into an Employment Agreement (the Garone Employment Agreement) with Michael R. Garone, the Company s Former Vice President, Chief Financial Officer and Corporate Secretary. The Garone Employment Agreement provides as follows:

The initial term of the Garone Employment Agreement is three years, and the agreement will automatically renew for additional one-year terms unless either party provides notice of non-renewal to the other party at least six months prior to the commencement of any renewal terms.

The Garone Employment Agreement provides for an annual base salary of \$265,000, with eligibility to receive an annual bonus of up to 30% of his base salary.

Pursuant to the Garone Employment Agreement, upon termination by the Company without Cause, or by Mr. Garone for Good Reason (as such terms are defined in the Garone Employment Agreement), subject to the delivery by Mr. Garone of a general release of claims in favor of the Company, Mr. Garone is entitled to (i) severance payments equal to his base salary for 6 months, except in the case of termination by the Company without Cause or termination by Mr. Garone for Good Reason within 12 months following a Change of Control (as defined in the Garone Employment Agreement), in which case Mr. Garone is entitled to severance payments equal to his base salary for 12 months, (ii) prorated annual bonus payments that Mr. Garone would have received but for his termination, (iii) prorated annual bonus payments that Mr. Garone would have received but for his termination, (iii) prorated annual bonus payments that Mr. Garone would have received but for his termination, so f cours of family health insurance coverage at the same rate as contributed by the Company prior to the termination until the earlier of twelve (12) months or loss of COBRA entitlement. In addition, in the case of termination by the Company without Cause or termination by Mr. Garone for Good Reason within 12 months following a Change of Control (as such terms are defined in the Garone Employment Agreement), Mr. Garone is entitled to the vesting of all stock option grants awarded pursuant to the terms of the Rubino Employment, regardless of date or condition of vesting.

Mr. Garone resigned from his position of Vice President, Chief Financial Officer of the Company effective June 24, 2016. Employment Agreement with Carl V. Sailer, Vice President, Sales and Marketing.

On October 15, 2012, the Company entered into an Employment Agreement (the Sailer Employment Agreement) with Carl V. Sailer, the Company s Vice President, Marketing and Sales. The Sailer Employment Agreement provides as follows:

The initial term of the Sailer Employment Agreement is three years, and the agreement will automatically renew for additional one-year terms unless either party provides notice of non-renewal to the other party at least six months prior to the commencement of any renewal terms.

The Sailer Employment Agreement provides for an annual base salary of \$255,000, with eligibility to receive an annual bonus of up to 45% of his base salary.

Pursuant to the Sailer Employment Agreement, upon termination by the Company without Cause, or by Mr. Sailer for Good Reason (as such terms are defined in the Sailer Employment Agreement), subject to the delivery by Mr. Sailer of a general release of claims in favor of the Company, Mr. Sailer is entitled to (i) severance payments equal to his base salary for 6 months, except in the case of termination by the Company without Cause or termination by Mr. Sailer for Good Reason within 12 months following a Change of Control (as defined in the Sailer Employment Agreement), in which case Mr. Sailer is entitled to severance payments equal to his base salary for 12 months, (ii) prorated annual bonus payments that Mr. Sailer would have received but for his termination, (iii) prorated equity compensation that Mr. Sailer would have received but for his termination, and (iv) the cost of family health insurance coverage

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at the same rate as contributed by the Company prior to the termination until the earlier of twelve (12) months or loss of COBRA entitlement. In addition, in the case of termination by the Company without Cause or termination by Mr. Sailer for Good Reason within 12 months following a Change of Control (as such terms are defined in the Sailer Employment Agreement), Mr. Sailer is entitled to the vesting of all stock option grants awarded pursuant to the terms of the Rubino Employment, regardless of date or condition of vesting.

Compensation Committee Interlocks and Insider Participation.

The current members of the Compensation Committee are Mr. McInerney, Dr. Rachesky and Dr. Weiser. No member of the Compensation Committee is or has ever been an executive officer or employee of our company (or any of its subsidiaries) and no compensation committee interlocks existed during fiscal year 2016. For further information about our processes and procedures for the consideration and determination of executive and director compensation, please see **Executive Compensation Discussion and Analysis**.

Compensation Committee Report

The Compensation Committee operates under a written charter adopted by the Board of Directors. The Compensation Committee charter can be found on our website at www.emisphere.com. The contents of our website are not incorporated herein by reference and the website address provided in this annual report is intended to be an inactive textual reference only.

The Compensation Committee is responsible for the consideration of stock plans, performance goals and incentive awards, and the overall coverage and composition of the compensation arrangements related to executive officers. The Compensation Committee may delegate any of the foregoing duties and responsibilities to a subcommittee of the Compensation Committee consisting of not less than two members of the committee. The Compensation Committee has the authority to retain, at the expense of the Company, such outside counsel, experts and other advisors as deemed appropriate to assist it in the full performance of its functions. The Company s Chief Executive Officer is involved in making recommendations to the Compensation Committee for compensation of Executive Officers (except for himself) as well as recommending compensation levels for directors.

Our executive compensation program is administered by the Compensation Committee of the Board of Directors. The Compensation Committee, which is composed of non-employee independent directors, is responsible for reviewing with Company management and approving compensation policy and all forms of compensation for executive officers and directors in light of the Company s current business environment and the Company s strategic objectives. In addition, the Compensation Committee acts as the administrator of the Company s stock option plans. The Compensation Committee s practices include reviewing and establishing executive officers compensation to ensure that base pay and incentive compensation are competitive to attract and retain qualified executive officers, and to provide incentive systems reflecting both financial and operating performance, as well as an alignment with stockholder interests. These policies are based on the principle that total compensation should serve to attract and retain those executives critical to the overall success of Emisphere and should reward executives for their contributions to the enhancement of stockholder value.

The Compensation Committee oversees risk management as it relates to our compensation plans, policies and practices in connection with structuring our executive compensation programs and reviewing our incentive compensation programs for other employees. The committee considered risk when developing our compensation programs and believes that the design of our current compensation programs do not encourage excessive or inappropriate risk taking. Our base salaries provide competitive fixed compensation, while annual cash bonuses and equity-based awards encourage long-term consideration rather than short-term risk taking.

The Compensation Committee has reviewed and discussed the Compensation Discussion and Analysis presented herein with the management of the Company. Based on that review and discussion, the Compensation Committee recommended to the Board of Directors that the Compensation Discussion and Analysis be included in the Form 10-K and Proxy Statement of the Company.

The Members of the Compensation Committee

Dr. Michael Weiser, M.D., Ph.D. (Chairman)

Mr. Timothy McInerney

Dr. Mark H. Rachesky, M.D.

Audit Committee Report

The Audit Committee operates under a written charter adopted by the Board of Directors. The Audit Committee has reviewed the relevant standards of the Sarbanes-Oxley Act of 2002, the rules of the SEC, and the corporate governance listing standards of the NASDAQ Listing Rules regarding committee policies. The committee intends to further amend its charter, if necessary, as the applicable rules and standards evolve to reflect any additional requirements or changes. The updated Audit Committee charter can be found on our website at <u>www.emisphere.com</u>. The contents of our website are not incorporated herein by reference and the website address provided in this Proxy Statement is intended to be an inactive textual reference only.

The Audit Committee is currently comprised of Mr. Timothy McInerney, (chairman), Jacob M. Plotsker and Michael Weiser, M.D., Ph.D.

All of the members of the Audit Committee meet the independence requirements under the applicable provisions of the Exchange Act and regulations promulgated thereunder and the relevant NASDAQ Listing Rules. The Board of Directors has determined that the Company does not currently have an audit committee financial expert, as that term is defined in Item 407(d)(5)(ii) of Regulation S-K, serving on the Audit Committee, as a result of the resignation of the previously designated audit committee financial expert from the Audit Committee.

On January 6, 2010, with the approval of the Audit Committee of the Company, the Company engaged RSM US LLP (RSM) to act as its independent registered public accounting firm. During the year ended December 2009, and in the subsequent interim periods through December 31, 2016, neither the Company nor anyone acting on its behalf had consulted with RSM on any of the matters or events set forth in Item 304(a)(2) of Regulation S-K.

Management has primary responsibility for the Company s financial statements and the overall reporting process, including the Company s system of internal control over financial reporting. RSM, the Company s independent registered public accountants, audit the annual financial statements prepared by management, express an opinion as to whether those financial statements fairly present the financial position, results of operations and cash flows of the Company in conformity with accounting principles generally accepted in the United States, and report on internal control over financial reporting. RSM reports to the Audit Committee as members of the Board of Directors and as representatives of the Company s stockholders.

The Audit Committee meets with management periodically to consider the adequacy of the Company s internal control over financial reporting and the objectivity of its financial reporting. The Audit Committee discusses these matters with the appropriate Company financial personnel. In addition, the Audit Committee has discussions with management concerning the process used to support certifications by the Company s Chief Executive Officer and Interim Chief Accounting Officer that are required by the SEC and the Sarbanes-Oxley Act to accompany the Company s periodic filings with the SEC.

On an as needed basis, the Audit Committee meets privately with RSM. The Audit Committee also appoints the independent registered public accounting firm, approves in advance their engagements to perform audit and any non-audit services and the fee for such services, and periodically reviews their performance and independence from management. In addition, when appropriate, the Audit Committee discusses with RSM plans for the audit partner rotation required by the Sarbanes-Oxley Act.

Pursuant to its charter, the Audit Committee assists the board in, among other things, monitoring and reviewing (i) our financial statements, (ii) our compliance with legal and regulatory requirements and (iii) the independence, performance and oversight of our independent registered public accounting firm. Under the Audit Committee charter, the Audit Committee is required to make regular reports to the board.

During the 2016 Fiscal Year, the Audit Committee of the Board of Directors reviewed and assessed:

the quality and integrity of the annual audited financial statements with management, including issues relating to accounting and auditing principles and practices, as well as the adequacy of internal controls, and compliance with regulatory and legal requirements;

the qualifications and independence of the independent registered public accounting firm; and

management s, as well as the independent auditor s, analysis regarding financial reporting issues and judgments made in connection with the preparation of our financial statements, including those prepared quarterly and annually, prior to filing our quarterly reports on Form 10-Q and annual report on Form 10-K.

The Audit Committee has reviewed the audited financial statements and has discussed them with both management and RSM, the independent registered public accounting firm. The Audit Committee has discussed with the independent auditors matters required to be discussed by the applicable Auditing Standards as periodically amended (including significant accounting policies, alternative accounting treatments and estimates, judgments and uncertainties). In addition, the independent auditors provided to the Audit Committee the written disclosures required by the applicable requirements of the Public Company Accounting Oversight Board regarding the independent auditors communications with the Audit Committee concerning independence, and the Audit Committee and the independent auditors have discussed the auditors independence from the Company and its management, including the matters in those written disclosures. The Audit Committee also received reports from RSM regarding all critical accounting policies and practices used by the Company, any alternative treatments of financial information used, generally accepted accounting principles that have been discussed with management, ramifications of the use of alternative treatments and the treatment preferred by RSM and other material written communications between RSM and management, including management letters and schedules of adjusted differences.

In making its decision to select RSM as Emisphere s independent registered public accounting firm for 2016, the Audit Committee considered whether the non-audit services provided by RSM are compatible with maintaining the independence of RSM.

Based upon the review and discussions referenced above, the Audit Committee, as comprised at the time of the review and with the assistance of the Company s Interim Chief Accounting Officer, recommended to the Board of Directors that the audited financial statements be included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2016, and be filed with the SEC.

The Members of the Audit Committee

Mr. Timothy McInerney (Chairman)

Mr. Jacob M. Plotsker

Dr. Michael Weiser, M.D., Ph.D.

Compensation of Non-Employee Directors

A director who is a full-time employee of the Company receives no additional compensation for services provided as a director. It is the Company s policy to provide competitive compensation and benefits necessary to attract and retain high quality non-employee directors and to encourage ownership of Company stock to further align their interests with those of stockholders. The following represents the compensation of the non-employee members of the Board of Directors:

All newly appointed directors receive an initial stock option grant on the date of appointment of 50,000 options to purchase shares of common stock. The options subject to such initial stock option grant vest over three years in equal amounts on each anniversary of the grant date provided the director continuously serves as a director from the grant date through such vesting date, subject to accelerated vesting upon a change in control. Such options, once vested, remain exercisable through the period of the option term.

All non-employee directors, other than the Chairman, receive an annual retainer of \$35,000, payable quarterly in cash, and an annual stock option grant of 40,000 options to purchase shares of common stock. The Chairman receives an annual retainer of \$180,000, payable quarterly in cash, and an annual stock option grant of 40,000 options. In addition, our Chairman received a grant of 175,000 stock options, which was the last of three installments he was entitled to in connection with his appointment as the

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Table of Contents

Chairman of the Company s Board. The annual stock option grants are granted each year on the date of the annual meeting of stockholders of the Company. Options vest over three years in equal amounts on each anniversary of the grant date provided the director continuously serves as a director from the grant date through such vesting date, subject to accelerated vesting upon a change in control. Such options, once vested, remain exercisable through the period of the option term.

Additional committee and chairperson fees are paid as follows:

\$10,000 audit committee chairperson fee;

\$2,500 audit committee member fee;

\$5,000 compensation committee chairperson fee;

\$1,000 compensation committee member fee;

\$2,500 governance and nominating committee chairperson fee; and

\$500 governance and nominating committee member fee. Director Compensation Table 2016

The table below represents the compensation paid to our non-employee directors during the year ended December 31, 2016:

Name	Fees Earned or Paid in Cash (\$)	Stock Awards (\$)(1)	Option Awards (\$)(1)	All Other Compensation (\$)	Total (\$)
John D. Harkey, Jr.	35,000	0	29,366	0	64,366
Timothy McInerney	46,000	0	29,366	0	75,366
Jacob M. Plotsker	38,000	0	29,366	0	67,366
Mark H. Rachesky, M.D.	36,500	0	29,366	0	65,866
Timothy G. Rothwell	215,000	0	29,366	0	244,366
Michael Weiser, M.D., Ph.D.	45,000	0	29,366	0	74,366

(1) Amounts shown in this column represent the aggregate grant date fair value of stock option awards granted during the respective year computed in accordance with Financial Accounting Standards Board ASC Topic 718. For assumptions used in the valuation of these awards please see Note 11 to our Financial Statements. There can be no assurance that these awards will vest or will be exercised (in which case no value will be realized by the individual), or that value upon exercise will approximate the aggregate grant date fair value.

The following table summarizes the aggregate number of option awards and stock awards held by each non-employee director at December 31, 2016.

	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Unearned Options (#) Unexercisable	Option Awards Equity Incentive Plan Awards: Number of Securities Underlying Uneercised Unearned Options (#)	Option Exercise Price (\$)	Option Expiration Date	Number of Shares of Units of	Awards Market Value of Shares or Units of Stock That Have not Vested (\$)
John D. Harkey, Jr.	$\begin{array}{c} 7,000\\ 7,000\\ 75,000\\ 40,000\\ 40,000\\ 40,000\\ 40,000\\ 26,666\\ 25,000\\ 13,333\end{array}$	13,334(1) 50,000(2) 26,667(3) 40,000(5)		\$ 3.76 \$ 3.79 \$ 0.93 \$ 1.20 \$ 1.53 \$ 0.20 \$ 0.23 \$ 0.27 \$ 0.58 \$ 0.50 \$ 0.73	4/20/2017 8/8/2018 5/15/2019 9/16/2020 9/19/2021 5/31/2022 5/30/2023 5/29/2024 3/3/2025 5/20/2025 5/25/2026		
Timothy McInerney	50,000 40,000 40,000 26,666 25,000 13,333	13,334(1) 50,000(2) 26,667(3) 40,000(5)		\$ 0.27 \$ 0.20 \$ 0.20 \$ 0.23 \$ 0.27 \$ 0.27 \$ 0.58 \$ 0.50 \$ 0.73	3/1/2022 5/31/2022 5/30/2023 5/29/2024 3/3/2025 5/20/2025 5/25/2026		
Jacob M. Plotsker	50,000 40,000 26,666 25,000 13,333	13,334(1) 50,000(2) 26,667(3) 40,000(5)		\$ 0.27 \$ 0.20 \$ 0.23 \$ 0.27 \$ 0.58 \$ 0.50 \$ 0.73	3/1/2022 5/31/2022 5/30/2023 5/29/2024 3/3/2025 5/20/2025 5/25/2026		
Mark H. Rachesky, M.D.	$\begin{array}{c} 7,000\\ 7,000\\ 75,000\\ 40,000\\ 40,000\\ 40,000\\ 40,000\\ 26,666\\ 25,000\\ 13,333\end{array}$	13,334(1) 50,000(2) 26,667(3) 40,000(5)		\$ 3.76 \$ 3.79 \$ 0.93 \$ 1.20 \$ 1.53 \$ 0.20 \$ 0.23 \$ 0.27 \$ 0.58 \$ 0.50 \$ 0.73	4/20/2017 8/8/2018 5/15/2019 9/16/2020 9/19/2021 5/31/2022 5/30/2023 5/29/2024 3/3/2025 5/20/2025 5/25/2026		

	Number of Securities Underlying Unexercised Options (#) Exercisable	O Number of Securities Underlying Unexercised Unearned Options (#) Unexercisable	Option Awards Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned Options (#)	Option Exercise Price (\$)	Option Expiration Date	Stock Number of Shares of Units of Stock That Have not Vested (#)	Value of Shares or Units of
Timothy G. Rothwell	50,000 40,000			\$ 0.70 \$ 1.20	11/5/2019 9/16/2020		
	40,000			\$ 1.53	9/19/2021		
	40,000			\$ 0.20	5/31/2022		
	175,000			\$ 0.09	9/13/2022		
	40,000			\$ 0.23	5/30/2023		
	175,000			\$ 0.18	9/13/2023		
	26,666	13,334(1)		\$ 0.27	5/29/2024		
	175,000			\$ 0.39	9/15/2024		
	58,333	116,667(4)		\$ 0.58	3/3/2025		
	13,333	26,667(3)		\$ 0.50	5/20/2025		
	175,000	10.000 (7)		\$ 0.60	9/14/2025		
		40,000(5)		\$ 0.73	5/25/2026		
Michael Weiser, M.D., Ph.D.	7 000			¢ 270	4/20/2017		
	7,000			\$ 3.76 \$ 2.70	4/20/2017		
	7,000 75,000			\$ 3.79 \$ 0.93	8/8/2018 5/15/2019		
	40,000			\$ 0.93 \$ 1.20	9/16/2020		
	40,000			\$ 1.20 \$ 1.53	9/10/2020		
	40,000			\$ 0.20	5/31/2022		
	40,000			\$ 0.20 \$ 0.23	5/30/2023		
	26,666	13,334(1)		\$ 0.23 \$ 0.27	5/29/2023		
	25,000	50,000(2)		\$ 0.58	3/3/2025		
	13,333	26,667(3)		\$ 0.50 \$ 0.50	5/20/2025		
	10,000	40,000(5)		\$ 0.73	5/25/2026		
		- , (-)					

(1) 13,334 exercisable as of 5/29/2017

- (2) 25,000 exercisable as of 3/3/2017 and 3/3/2018
- (3) 13,333 exercisable as of 5/20/2017 and 13,334 exercisable as of 5/20/2018
- (4) 58,333 exercisable as of 3/3/2017 and 58,334 as of 3/3/2018
- (5) 13,333 exercisable as of 5/25/2017 13,333 exercisable as of 5/25/2018 13,334 exercisable as of 5/25/2019

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Securities Available For Future Issuance Under Equity Plans

The following table provides information as of December 31, 2016, about the common stock that may be issued upon the exercise of options granted to employees, consultants or members of our Board of Directors under our existing equity compensation plans, including the 2007 Stock Award and Incentive Plan. For a discussion of the material features of the Company s equity compensation plans, please see Note 11 to the Financial Statements included in this Report.

Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options	(b) Weighted Average Exercise Price of Outstanding Options	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (a))
Equity Compensation Plans Approved by Security Holders			
The Plans	6,386,833	\$ 0.67	2,896,683
Total	6,386,833	\$ 0.67	2,896,683

Common Stock Ownership by Directors and Executive Officers and Principal Holders

Directors and Executive Officers

The following table sets forth certain information, as of March 1, 2017, regarding the beneficial ownership of the common stock by (i) each director; (ii) each named executive officer; (iii) all of our directors and named executive officers as a group. The number of shares beneficially owned by each director or Executive Officer is determined under the rules of the SEC, and the information is not necessarily indicative of beneficial ownership for any other purpose. Under these rules, beneficial ownership includes any shares as to which the individual has the sole or shared voting power (which includes power to vote, or direct the voting of, such security) or investment power (which includes power to dispose of, or direct the disposition of, such security). In computing the number of shares beneficially owned by a person and the percentage ownership of that person, shares of common stock subject to options, warrants or convertible notes held by that person that are currently exercisable or convertible into Common Stock or will become exercisable or convertible into common stock within 60 days after March 1, 2017 are deemed outstanding, while such shares are not deemed outstanding for purposes of computing percentage ownership of any other person. Unless otherwise indicated, all persons named as beneficial owners of common stock have sole voting power and sole investment power with respect to the shares indicated as beneficially owned:

Name and Address(a)	Common Shares Beneficially Owned	Common Shares Underlying Options	Percent Of Class
Alan L. Rubino	(b) 2,100,000	2,100,000	3.3%
		, ,	
Michael R. Garone	423,332	323,332	*
Carl V. Sailer	210,000	210,000	*
Mark H. Rachesky, M.D.	89,664,078	71,180,415	68.0%
Timothy G. Rothwell	1,008,332	1,008,332	1.6%
Michael Weiser, M.D., Ph.D.	313,999	313,999	*
John D. Harkey, Jr.	313,999	313,999	*
Timothy McInerney	194,999	194,999	*
Jacob M. Plotsker	194,999	194,999	*
All directors and avagutive officers as a group	04 422 728	75 840 075	72.9%
All directors and executive officers as a group	94,423,738	75,840,075	12.9%

- * Less than 1%
- (a) Unless otherwise specified, the address of each beneficial owner is c/o Emisphere Technologies, Inc., 4 Becker Farm Road, Suite 103, Roseland, New Jersey,
- (b) The number of shares set forth for each Director and Executive Officer consists of direct and indirect ownership of shares, including stock options, deferred common share units, restricted stock and, in the case of Dr. Rachesky, shares of common stock that can be obtained upon conversion of convertible notes and exercise of warrants, as further described in footnotes (c) and (d) below.
- (c) This number consists of:

18,483,663 shares of common stock.

48,868,640 shares of common stock that can be obtained upon conversion of notes convertible into the common stock of the Company.

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21,997,776 shares of common stock that can be obtained upon the exercise of warrants to purchase shares of common stock of the Company.

313,999 shares of common stock that can be obtained by Dr. Rachesky upon the exercise of currently vested stock options and options that will vest within 60 days of March 1, 2017.

These securities (other than the 313,999 beneficially owned directly by Dr. Rachesky) are held for the accounts of MHR Capital Partners Master Account LP, an Anguilla, British West Indies limited

partnership (Master Account), MHR Capital Partners (100) LP, a Delaware limited partnership (Capital Partners (100)), MHR Institutional Partners II LP, a Delaware limited partnership (Institutional Partners II) and MHR Institutional Partners IIA LP, a Delaware limited partnership (Institutional Partners IIA). MHR Advisors LLC a Delaware limited liability company (Advisors) is the general partner of each of Master Account and Capital Partners (100), and, in such capacity, may be deemed to beneficially own the shares of common stock held for the accounts of, or beneficially owned by, each of Master Account and Capital Partners (100). MHRC LLC, a Delaware limited liability company (MHRC) is the managing member of Advisors and, in such capacity, may be deemed to beneficially own the shares of common stock held for the accounts of, or beneficially owned by, each of Master Account and Capital Partners (100). MHR Institutional Advisors II LLC, a Delaware limited liability company (Institutional Advisors II) is the general partner of each of Institutional Partners II and Institutional Partners IIA, and, in such capacity, may be deemed to beneficially own the shares of common stock held for the accounts of, or beneficially owned by, each of Institutional Partners II and Institutional Partners IIA. MHRC II LLC, a Delaware limited liability company (MHRC II) is the managing member of Institutional Advisors II and, in such capacity, may be deemed to beneficially own the shares of common stock held for the accounts of, or beneficially owned by, each of Institutional Partners II and Institutional Partners IIA. MHR Fund Management LLC, a Delaware limited liability company (Fund Management) is an affiliate of and has an investment management agreement with each of Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA, and other affiliated entities, pursuant to which it has the power to vote or direct the vote and to dispose or to direct the disposition of the shares of common stock held by such entities and, accordingly, Fund Management may be deemed to beneficially own the shares of common stock held for the account of each of Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA. MHR Holdings LLC, a Delaware limited liability company (Holdings) is the managing member of Fund Management, and as such, may be deemed to beneficially own the shares of common stock held for the accounts of each of Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA. Dr. Rachesky is the managing member of Holdings, MHRC and MHRC II, and as such, may be deemed to beneficially own the shares of common stock held for the accounts of each of Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA.

(d) This number consists of (i) 48,868,640 shares of common stock that can be obtained by Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA upon the conversion of notes convertible into common stock of the Company, (ii) 21,997,776 shares of common stock that can be obtained by Master Account, Capital Partners (100), Institutional Partners II and Institutional Partners IIA upon exercise of warrants to purchase shares of common stock of the Company, (iii) 313,999 shares of common stock that can be obtained by Dr. Rachesky upon the exercise of currently vested stock options and options that will vest within 60 days of March 1, 2017.

Principal Holders of Common Stock

The following table sets forth information regarding beneficial owners of more than five (5%) percent of the outstanding shares of Common Stock as of March 1, 2017:

Name and Address	Number of Shares Beneficially Owned	Percent Of Class(a)
Bai Ye Feng	3,552,503(b)	5.9%
Mark H. Rachesky, M.D.	89,664,078(c)	68.0%

(a) Applicable percentage ownership is based on 60,687,478 shares of Common Stock outstanding as of March 1, 2017. In computing the number of shares beneficially owned by a person and the percentage ownership of that person, shares of Common Stock subject to options, warrants or convertible notes held by that person that are currently exercisable or convertible into Common Stock or will become exercisable or convertible into Common Stock within 60 days after March 1, 2017, are deemed outstanding, while such shares are not deemed outstanding for purposes of computing percentage ownership of any other person.

- (b) Based on a Schedule 13G/A filed on January 8, 2016 by Bai Ye Feng. Mr. Feng beneficially owns an aggregate of 3,552,503 shares of common stock, consisting of 3,303,503 shares of common stock held by Mr. Feng, and 249,000 shares of common stock owned of record by Lighthouse Consulting Limited, a Hong Kong company of which Mr. Feng is a principal and therefore may be deemed to be a beneficial holder of such shares. Mr. Feng s address is 16A Li Dong Building, No.9 Li Yuen Street East, Central, Hong Kong
- (c) The address of Dr Rachesky, Master Account, Advisors, Institutional Partners II, Institutional Partners IIA, Institutional Advisors II, MHRC LLC, MHRC II LLC, Fund Management, Capital Partners (100) and Holdings, to which we refer collectively as the MHR Investors, is 1345 Avenue of the Americas, 42nd Floor, New York, NY 10105. For a description of the relationships between the MHR Investors, please refer to footnote c in the table under Directors and Executive Officers above.

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ITEM 13. CERTAIN RELATIONSHIPS, RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE Related Party Transaction Approval Policy

In February 2007, our Board of Directors adopted a written related party transaction approval policy, which sets forth our Company s policies and procedures for the review, approval or ratification of any transaction required to be reported in our filings with the SEC. The Company s policy with regard to related party transactions is that all material transactions non-compensation related are to be reviewed by the Audit Committee for any possible conflicts of interest. The Compensation Committee will review all material transactions that are related to compensation. All related party transactions approved by either the Audit Committee or Compensation Committee shall be disclosed to the Board of Directors at the next meeting.

Transactions with MHR

Mark H. Rachesky, M.D. is a director and member of the Company s Compensation Committee and its Governance and Nominating Committee. Dr. Rachesky is also the managing member of (i) MHRC, the managing member of Advisors, which in turn is the general partner of Master Account and Capital Partners (100); (ii) MHRC II, the managing member of Institutional Advisors II, which is in turn the general partner of Institutional Partners II and Institutional Partners IIA; and (iii) MHR Holdings, the managing member of Fund Management (and, together with MHRC, MHRC II, MHR Holdings, Advisors, Institutional Advisors II, Master Account, Capital Partners 100, Institutional Partners II, and Institutional Partners IIA, MHR) which is an affiliate of and has an investment management agreement with Master Account, Capital Partners 100, Institutional Partners II, and Institutional Partners IIA.

On August 20, 2014, the Company entered into a series of agreements (the Transaction Documents) with Master Account, Capital Partners (100), Institutional Partners II, and Institutional Partners IIA, (collectively, the Lenders), for a new loan facility, an extension of the Company s existing obligations under various promissory notes previously issued to the Lenders, and for payment by the Company of certain royalties to the Lenders (the Transaction). Currently, MHR owns approximately 30.5% of the common stock of the Company and has \$82.2 million in outstanding indebtedness.

A special committee of the Company s board of directors (the Board), composed of independent directors, negotiated the terms of the Loan Agreement and restructuring with MHR and the transactions contemplated thereby with the advice of its legal and financial advisors, and the Loan Agreement and restructuring was unanimously approved by the disinterested members of the Board with the unanimous affirmative recommendation of the special committee. A separate special committee of the Company s Board, composed of independent directors, negotiated the terms of the Company s existing indebtedness with MHR and the GLP-1 License Agreement with the advice of its legal and financial advisors, the terms of which where unanimously approved by the disinterested members of the Board with the unanimous affirmative recommendation of the special committee. For a more detailed description of the Loan and restructuring transactions see Liquidity & Capital Resources and Note 7 of the Financial Statements.

Information about the Board of Directors

Our business is overseen by the Board of Directors. It is the duty of the Board of Directors to oversee the Chief Executive Officer and other senior management in the competent and ethical operation of the Company on a day-to-day basis and to assure that the long-term interests of the stockholders are being served. To satisfy this duty, our directors take a proactive, focused approach to their position, and set standards to ensure that the Company is committed to business success through maintenance of the highest standards of responsibility and ethics. The Board of Directors is kept advised of our business through regular verbal or written reports, Board of Directors meetings, and analysis and discussions with the Chief Executive Officer and other officers of the Company.

Members of the Board of Directors bring to us a wide range of experience, knowledge and judgment. Our governance organization is designed to be a working structure for principled actions, effective decision-making and appropriate monitoring of both compliance and performance.

The Board of Directors has affirmatively determined that Mr. John D. Harkey, Jr., Mr. Timothy McInerney, Mr. Jacob M. Plotsker, Dr. Mark H. Rachesky, Mr. Timothy G. Rothwell, and Dr. Michael Weiser are independent directors within the meaning of Rule 4200 of the NASDAQ Marketplace Rules. Mr. Rubino is the sole member of the Board of Directors who is not independent. The independent directors meet in separate sessions at the conclusion of board meetings and at other times as deemed necessary by the independent directors, in the absence of Mr. Rubino. Mr. Rothwell currently serves as Chairman. Matters are explored in Committee and brought to the full Board for discussion or action.

Committees of the Board of Directors

The Board of Directors has established an Audit Committee, a Compensation Committee and a Governance and Nominating Committee. Each of the committees of the Board of Directors acts pursuant to a separate written charter adopted by the Board of Directors.

The Audit Committee is currently comprised of Mr. McInerney (Chairman), Jacob M. Plotsker, and Dr. Weiser. All of the members of the Audit Committee meet the independence requirements under the applicable provisions of the Exchange Act and regulations promulgated thereunder and the relevant NASDAQ Listing Rules. The Board of Directors has determined that the Company does not currently have an audit committee financial expert, as that term is defined in Item 407(d)(5)(ii) of Regulation S-K, serving on the Audit Committee as a result of the recent resignation of the previously designated audit committee financial expert from the Audit Committee.

The Compensation Committee is currently comprised of Dr. Weiser (Chairman), Dr. Rachesky, and Mr. McInerney. All members of the Compensation Committee are independent within the meaning of Rule 4200 of the NASDAQ Marketplace Rules, non-employee directors within the meaning of the rules of the Securities and Exchange Commission and outside directors within the meaning set forth under Internal Revenue Code Section 162(m). The Compensation Committee s responsibilities and duties are summarized in the report of the Compensation Committee and in the Compensation Committee charter also available on our website.

The Governance and Nominating Committee is currently comprised of Dr. Weiser (chairman), Dr. Rachesky, and Mr. Plotsker. All members of the Governance and Nominating Committee are independent within the meaning of Rule 4200 of the NASDAQ Marketplace Rules. The Governance and Nominating Committee s responsibilities and duties are set forth in the Governance and Nominating Committee charter on our website. Among other things, the Governance and Nominating Committee is responsible for recommending to the board the nominees for election to our Board of Directors and the identification and recommendation of candidates to fill vacancies occurring between annual stockholder meetings.

The table below provides membership information for each committee of the Board of Directors as of March 15, 2017:

Name	Board	Audit	Compensation	Governance and Nominating
Alan L. Rubino(1)	Х			
Mark H. Rachesky, M.D.(2)	Х		Х	Х
Michael Weiser, M.D., Ph.D.(2)	Х	Х	X*	X*
John D. Harkey, Jr.(3)	Х			
Timothy G. Rothwell(3)	X*			
Timothy McInerney(1)	Х	X*	Х	
Jacob M. Plotsker(1)	Х	Х		Х

^{*} Chair

- (1) Class II directors. Term as director is expected to expire in 2019.
- (2) Class III directors: Term as director is expected to expire in 2017.
- (3) Class I directors: Term as director is expected to expire in 2018.

Table of Contents

Board Involvement in Risk Oversight

Our Board of Directors is responsible for oversight of the Company s risk assessment and management process. We believe risk can arise in every decision and action taken by the Company, whether strategic or operational. Our comprehensive approach is reflected in the reporting processes by which our management provides timely and fulsome information to the Board of Directors to support its role in oversight, approval and decision-making.

The Board of Directors closely monitors the information it receives from management and provides oversight and guidance to our management team concerning the assessment and management of risk. The Board of Directors approves the Company s high level goals, strategies and policies to set the tone and direction for appropriate risk taking within the business.

The Board of Directors delegated to the Compensation Committee basic responsibility for oversight of management s compensation risk assessment, and that committee reports to the board on its review. Our Board of Directors also delegated tasks related to risk process oversight to our Audit Committee, which reports the results of its review process to the Board of Directors. The Audit Committee s process includes a review, at least annually, of our internal audit process, including the organizational structure, as well as the scope and methodology of the internal audit process. The Governance and Nominating Committee oversees risks related to our corporate governance, including director performance, director succession, director education and governance documents.

In addition to the reports from the Board committees, our board periodically discusses risk oversight.

Meetings Attendance

During the 2016 fiscal year, our Board of Directors held 2 meetings. Each director attended 100 percent of the aggregate number of Board of Directors meetings and committee meetings of which he was a member that were held during the period of his service as a director.

The Audit Committee met 4 times during the 2016 fiscal year.

The Compensation Committee met 1 time during the 2016 fiscal year.

The Governance and Nominating Committee did not meet during the 2016 fiscal year.

The Company does not have a formal policy regarding attendance by members of the Board of Directors at the Company s annual meeting of stockholders, although it does encourage attendance by the directors.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The following table presents fees for professional audit services rendered by RSM for the audit of our annual financial statements for the years ended December 31, 2016, and December 31, 2015, respectively, and fees billed for other services rendered by RSM during the respective periods.

	2016	2015
Type of Fees		
Audit Fees(1)	\$ 170,000	\$275,000
Audit-Related Fees(2)		\$ 8,954
	\$ 170,000	\$ 283,954

(1) Audit fees for 2016 and 2015 were for professional services rendered for the audit of the Company s financial statements for the fiscal year and reviews of the Company s quarterly financial statements included in its Form 10-Q filings. 2015 includes attestation services required under Section 404 of the Sarbanes-Oxley Act of 2002.

(2) Audit related fees are for services related to registration statements.

The Audit Committee has determined that the non- audit services provided by RSM during 2016 and 2015 did not impair their independence. All decisions regarding selection of independent registered public accounting firm and approval of accounting services and fees are made by our Audit Committee in accordance with the provisions of the Sarbanes-Oxley Act of 2002 and related SEC rules.

The Audit Committee pre-approves all audit and permissible non-audit services provided by the independent registered public accounting firm. These services may include audit services, audit related services, tax services and other services. The committee has adopted a policy for the pre-approval of services provided by the independent registered public accounting firm, where pre-approval is generally provided for up to one year and any pre-approval is detailed as to the particular service or category of services and is subject to a specific budget. For each proposed service, the independent auditor is required to provide detailed communication at the time of approval. The committee may delegate pre-approval authority to one or more of its members, who must report same to the Committee members at the next meeting. The Audit Committee, after discussion with RSM, agreed that any additional audit fees could be paid by us, subject to the pre-approval of the Audit Committee chairman.

The Audit Committee intends to select RSM to serve as independent registered public accounting firm for the fiscal year ending December 31, 2017.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) (1) Financial Statements

A list of the financial statements filed as a part of this report appears on page

(2) Financial Statement Schedules

Schedules have been omitted because the information required is not applicable or is shown in the Financial Statements or the corresponding Notes to the Financial Statements.

(3) Exhibits

A list of the exhibits filed as a part of this report appears on pages thru.

(b) See Exhibits listed under the heading Exhibit Index beginning on page

(c) Schedules have been omitted because the information required is not applicable or is shown in the Financial Statements or the corresponding Notes to the Financial Statements.

ITEM 16. FORM 10-K SUMMARY

We may voluntarily include a summary of information required by Form 10-K under this Item 16. We have elected not to include such summary information.

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.

Emisphere Technologies, Inc.

By: /s/ Alan L. Rubino Alan L. Rubino President and Chief Executive Officer

Date: March 30, 2017

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

Name and Signature	Title	Date
/s/ Alan L. Rubino	President and Chief Executive Officer and Director and Interim Principal Accounting Officer	March 30, 2017
Alan L. Rubino	(principal executive officer)	
/s/ Timothy G. Rothwell	Chairman of the Board	March 30, 2017
Timothy G. Rothwell		
/s/ John D. Harkey, Jr.	Director	March 30, 2017
John D. Harkey, Jr.		
/s/ Timothy McInerney	Director	March 30, 2017
Timothy McInerney		
/s/ Jacob M. Plotsker	Director	March 30, 2017
Jacob M. Plotsker		
/s/ Mark H. Rachesky, M.D.	Director	March 30, 2017
Mark H. Rachesky, M.D.		
/s/ Michael Weiser, M.D., Ph.D.	Director	March 30, 2017
Michael Weiser, M.D., Ph.D.		

EXHIBIT INDEX

E 1914		Incorpor by Refer	
Exhibit $2.1(a)$	Amondod and Destated Contificate of Incompanyian of Emisphane Technologies. Inc., as amondod by the	(1)	
3.1(a)	Amended and Restated Certificate of Incorporation of Emisphere Technologies, Inc., as amended by the Certificate of Amendment of Amended and Restated Certificate of Incorporation of Emisphere Technologies,		
		٨	
2.1(h)	Inc., dated April 20, 2007	А	
3.1(b)	Certificate of Increase of Series A Junior Participating Cumulative Preferred Stock of Emisphere Technologies,	В	
21(-)	Inc., dated June 4, 2012	В	
3.1(c)	Certificate of Amendment of Amended and Restated Certificate of Incorporation of Emisphere Technologies, Inc., dated June 4, 2012	В	
22(a)			
3.2(a)	By-Laws of Emisphere Technologies, Inc., as amended December 7, 1998, and September 23, 2005	D, E	
3.2(b)	Amendment to the Amended By-Laws of Emisphere Technologies, Inc., effective as of September 11, 2007	F	
4.1	Rights Agreement dated as of April 7, 2006 between Emisphere Technologies, Inc. and Mellon Investor	C	
1.0	Services, LLC	G	
4.2	Loan Agreement, dated as of August 20, 2014, by and between Emisphere Technologies, Inc. and the Lenders named therein		
4.2		Н	
4.3	Form of Second Amended and Restated 13% Senior Secured Convertible Note	H	
4.4	Form of Second Amended and Restated Senior Secured Reimbursement Promissory Note	Н	
4.5	Form of Second Amended and Restated Senior Secured Bridge Promissory Notes	Н	
4.6	Amended and Restated Pledge and Security Agreement by and between Emisphere Technologies, Inc. and MHR		
47	Institutional Partners IIA LP	Н	
4.7	Waiver, dated December 8, 2016, by the MHR Funds	I	$\langle 0 \rangle$
10.1	Emisphere Technologies, Inc. 2007 Stock Award and Incentive Plan	A	(2)
10.2	Form of Nonqualified Stock Option Agreement	A	(2)
10.3	Form of Incentive Stock Option Agreement	A	(2)
10.4	Form of Restricted Stock Option Agreement	А	(2)
10.5	Research Collaboration and Option Agreement dated as of December 3, 1997 between Emisphere Technologies,		(2)
10.4	Inc. and Novartis Pharma AG	K	(3)
10.6	Research Collaboration and License Agreement dated as of September 23, 2004 between	-	
	Emisphere Technologies, Inc. and Novartis Pharma AG, as amended on November 4, 2005	L	(3)
10.7(a)	Research Collaboration Option and License Agreement dated December 1, 2004 by and between Emisphere		
	Technologies, Inc. and Novartis Pharma AG	L	(3)
10.7(b)	Convertible Promissory Note due December 1, 2009 issued to Novartis Pharma AG	L	(3)
10.8(a)	Senior Secured Term Loan Agreement between Emisphere Technologies, Inc. and MHR Institutional Partners		
	IIA LP, dated September 26, 2005, as amended on November 11, 2005	E	
10.8(c)	Pledge and Security Agreement between Emisphere Technologies, Inc. and MHR Institutional Partners IIA		
	LP, dated September 26, 2005	E	
10.8(d)	Registration Rights Agreement between Emisphere Technologies, Inc. and MHR, dated September 26, 2005	E	
10.8(e)	Amendment No. 1 to the Senior Secured Term Loan Agreement, dated November 11, 2005	Ν	

Exhibit			Incorporated by Reference (1)	
10.8(f)	Form of 11% Senior Secured Convertible Note	E		
10.8(g)	Form of Amendment to 11% Senior Secured Convertible Note	Ā		
10.9	Warrant dated as of September 21, 2006, between Emisphere Technologies, Inc. and MHR Institutional Partners			
	IIALP	0		
10.10	Warrant dated as of September 21, 2006 between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	0		
10.11	Warrant adjustment notice between Emisphere Technologies, Inc. and MHR Capital Partners (100) LP, MHR Capital Partners Master Account, LP (formerly MHR Capital Partners (500) LP), MHR Institutional Partners IIA LP, MHR Institutional Partners II LP, MHR Capital Partners (100) LP and MHR Capital Partners Master Account			
	LP	Р		
10.12	Warrant dated as of August 22, 2007, between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	Р		
10.13	Warrant dated as of August 22, 2007, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA			
	LP	Р		
10.14	Development and License Agreement, dated as of June 21, 2008, between Emisphere Technologies, Inc. and Novo Nordisk AS.	Q	(3)	
10.15	Form of Non-Employee Director Non-Qualified Stock Option Agreement	R	(2)	
10.16	Securities Purchase Agreement dated as of August 19, 2009, between Emisphere Technologies and the Purchasers named therein	S		
10.17	Securities Purchase Agreement dated as of August 19, 2009, between Emisphere Technologies and MHR			
	Fund Management, LLC	S		
10.18	Warrant dated as of August 21, 2009, between Emisphere Technologies, Inc. and MHR Capital Partners Master Account LP	Т		
10.19	Warrant dated as of August 21, 2009, between Emisphere Technologies, Inc. and MHR Capital Partners (100) LP	Т		
10.20	Warrant dated as of August 21, 2009, between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	Т		
10.21	Warrant dated as of August 21, 2009, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA			
	LP	Т		
10.22	Agreement to Extend the Maturity Date of the Convertible Promissory Note Due December 1, 2009, between Emisphere Technologies and Novartis Pharma AG dated November 25, 2009	U		
10.23	Agreement to Extend the Maturity Date of the Convertible Promissory Note Due December 1, 2009, between			
	Emisphere Technologies and Novartis Pharma AG dated February 23, 2010	U		
10.24	Form of Incentive Stock Option Agreement under the Emisphere Technologies, Inc. 2007 Stock Award and			
	Incentive Plan	V		
10.25	Form of Non-Qualified Stock Option Agreement under the Emisphere Technologies, Inc. 2007 Stock Award and Incentive Plan	V		
10.26	Letter Agreement by and between Emisphere Technologies, Inc. and MHR Institutional Partners IIA LP, dated			
	June 8, 2010	W		
10.27	Form of Emisphere Technologies, Inc. Reimbursement Note	W		
10.28	Form of Emisphere Technologies, Inc. Second Reimbursement Note	W		
10.29	Research Master Agreement and Amendment by and between Emisphere Technologies, Inc. and Novartis Pharma AG, effective as of June 4, 2010	Х	(3)	

Exhibit		Incorporated by Reference (1)
10.30	Securities Purchase Agreement by and among Emisphere Technologies, Inc. and the Buyers named therein, dated	
	August 25, 2010	Y
10.31	Securities Purchase Agreement by and among Emisphere Technologies, Inc. and the MHR Buyers named therein, dated August 25, 2010	Y
10.32	Waiver Agreement, by and among Emisphere Technologies, Inc. and MHR, dated August 25, 2010	Ŷ
10.33	Registration Rights Agreement by and among Emisphere Technologies, Inc. and the Buyers named therein, dated August 26, 2010	Z
10.34	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and Freestone Advantage Partners, LP	Z
10.35	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Capital Partners Master Account LP	
10.26		Z Z
10.36 10.37	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Capital Partners (100) LP Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	Z
10.37	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA	L
10.36	LP	Z
10.39	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Capital Partners Master Account LP	Z
10.40	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Capital Partners (100) LP	Z
10.41	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	Z
10.42	Warrant dated as of August 26, 2010, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA	
	LP	Z
10.43	Development and License Agreement, dated December 20, 2010, between Emisphere Technologies, Inc. and	
	Novo Nordisk A/S	AA (3)
10.44	Securities Purchase Agreement, dated June 30, 2011, by and among Emisphere Technologies, Inc. and the Buyers named therein.	BB
10.45	Securities Purchase Agreement, dated June 30, 2011, by and among Emisphere Technologies, Inc. and the MHR	
	Fund Management LLC.	BB
10.46	Waiver Agreement, dated June 30, 2011, by and among Emisphere Technologies, Inc. and MHR.	BB
10.47	Registration Rights Agreement by and among Emisphere Technologies, Inc. and the Buyers named therein, dated July 6, 2011	CC
10.48	Warrant A-54 dated as of July 6, 2011, between Emisphere Technologies, Inc. and EOS Holdings LLC	CC
10.49	Warrant A-55 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Kingsbrook Opportunities	
10.50	Master Fund LP	CC
10.50	Warrant A-56 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Bai Ye Feng	CC
10.51	Warrant A-57 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Cranshire Capital, L.P.	CC

Exhibit		Incorpor by Refer (1)	
10.52	Warrant A-58 dated as of July 6, 2011, between Emisphere Technologies, Inc. and HF H VICTOR UW VICTOR		
10.53	ART 7 Warrant A-59 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Freestone Advantage Partners,	CC	
10.55	LP	CC	
10.54	Warrant A-60 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Iroquois Master Fund Ltd.	CC	
10.55	Warrant A-61 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Shipman & Goodwin LLP		
	Profit Sharing Trust FBO James T. Betts	CC	
10.56	Warrant A-62 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Son Nam Nguyen	CC	
10.57	Warrant A-63 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Pine Lodge Capital Company Ltd.	CC	
10.58	Warrant A-64 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Huaidong Wang	CC	
10.58	Warrant A-65 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Indiadolig Wang Warrant A-65 dated as of July 6, 2011, between Emisphere Technologies, Inc. and Anson Investments Master	cc	
10.57	Fund LP	CC	
10.60	Warrant A-66 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Capital Partners Master		
	Account LP	CC	
10.61	Warrant A-67 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Capital Partners (100)		
10 (3		CC	
10.62	Warrant A-68 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Institutional Partners II LP	CC	
10.63	LP Warrant A-69 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA	tt	
10.05	LP	CC	
10.64	Warrant A-70 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Capital Partners Master	00	
	Account LP	CC	
10.65	Warrant A-71 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Capital Partners (100)		
	LP	CC	
10.66	Warrant A-72 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Institutional Partners II		
10.67	LP Warrant A-73 dated as of July 6, 2011, between Emisphere Technologies, Inc. and MHR Institutional Partners IIA	CC	
10.07	LP	CC	
10.68	License Agreement, dated March 8, 2000, by and between Emisphere Technologies, Inc. and Novartis Pharma AG	DD	(3)
10.69	Form of Novartis Promissory Note Extension, between the Company and MHR	EE	(0)
10.70	Form of Promissory Reimbursement Note Extension, between the Company and MHR	EE	(3)
10.71	Employment Agreement, dated September 13, 2012, between Alan L. Rubino and the Company	FF	(2)
10.72	Incentive Stock Option Agreement, dated September 13, 2012, between Alan L. Rubino and the Company	FF	(2)
10.73	Senior Secured Promissory Note of Emisphere Technologies, Inc., dated October 17, 2012	GG	
10.74	Amendment to Pledge and Security Agreement, by and among Emisphere Technologies, Inc. and MHR	CC	
10.75	Institutional Partners IIA LP, dated October 17, 2012 Employment Agreement, dated October 15, 2012, between Carl V. Sailer and Emisphere Technologies, Inc.	GG GG	(2)
10.75	Employment representent, dated October 15, 2012, between Carr V. Saner and Emisphere reemilologies, me.	00	(2)

Exhibit			Incorporated by Reference (1)	
10.76	Incentive Stock Option Agreement, dated October 15, 2012, between Carl V. Sailer and Emisphere Technologies,			
	Inc.	GG	(2)	
10.77	Employment Agreement, dated January 14, 2013, between Michael R. Garone and Emisphere Technologies, Inc.	HH	(2)	
10.78	Sublease Agreement, dated November 27, 2012, between New American Therapeutics, Inc. and Emisphere			
	Technologies, Inc.	II		
10.79	Lease Agreement, dated December 11, 2012, between 4 Becker SPE LLC and Emisphere Technologies, Inc.	II		
10.80	Amendment to Emisphere Technologies, Inc. Amended and Restated 13% Senior Secured Convertible Note, dated			
	March 28, 2014	Н		
10.81	Royalty Agreement, dated as of August 20, 2014, by and between Emisphere Technologies, Inc. and the other			
	parties named therein	HH		
10.82	Agreement, dated December 8, 2016, by and among Emisphere Technologies, Inc. and the MHR Funds	Ι		
10.83	Amendment No. 4 to the Development and License Agreement, dated December 8, 2016, by and among			
	Emisphere Technologies, Inc., the MHR Funds and Novo Nordisk AS	Ι		
14.1	Emisphere Technologies, Inc. Code of Business Conduct and Ethics for Directors	LL		
21.1	Subsidiaries*			
23.1	Consent of Independent Registered Public Accounting Firm RSM US LLP*			
31.1	Certification of the Chief Executive Officer Pursuant to Rule 13a-14(a) and 15d-14(a), as adopted pursuant to			
	Section 302 of the Sarbanes-Oxley Act of 2002*			
31.2	Certification of the Chief Financial Officer Pursuant to Rule 13a-14(a) and 15d-14(a), as adopted pursuant to			
	Section 302 of the Sarbanes-Oxley Act of 2002.*			
32.1	Certification Pursuant to 18 U.S.C. Section 1350, As Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act			
	of 2002*			
101	Interactive Data File	*		

- * Filed herewith
- (1) If not filed herewith, filed as an exhibit to the document referred to by letter as follows:
- A. Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2007
- B. Current Report on Form 8-K, filed on June 5, 2012
- C. Reserved
- D. Quarterly Report on Form 10-Q for the quarterly period ended January 31, 1999
- E. Current Report on Form 8-K, filed September 30, 2005
- F. Current Report on Form 8-K, filed September 14, 2007
- G. Current Report on Form 8-K, filed April 10, 2006

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- H. Current Report on Form 8-K, filed on August 21, 2014
- I. Current Report on Form 8-K, filed December 9, 2016
- J. Reserved
- K. Quarterly Report on Form 10-Q for the quarterly period ended October 31, 1997
- L. Registration on Form S-3/A dated and filed February 1, 2005
- M. Reserved
- N. Current Report on Form 8-K, filed November 14, 2005

- O. Annual Report on Form 10-K for the fiscal year ended December 31, 2006
- P. Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2007
- Q. Current Report on Form 10-Q, filed August 11, 2008
- R. Current Report on Form 8-K, filed May 21, 2009
- S. Current Report on Form 8-K, filed August 20, 2009
- T. Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2009
- U. Annual Report on Form 10-K for the fiscal year ended December 31, 2009
- V. Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2010
- W. Current Report on Form 8-K, filed June 9, 2010
- X. Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2010
- Y. Current Report on Form 8-K, filed August 25, 2010
- Z. Registration Statement on Form S-1, filed on September 15, 2010
- AA. Current Report on Form 8-K, filed on December 21, 2010
- BB. Current Report on Form 8-K, filed on June 30, 2011
- CC. Registration Statement on Form S-1, filed on July 26, 2011
- DD. Amendment No. 1 on Form 10-K/A, filed January 19, 2012, to Annual Report on Form 10-K for the fiscal year ended December 31, 2010, originally filed on March 31, 2011
- EE Current Report on Form 8-K, filed on June 4, 2012

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- FF Current Report on Form 8-K, filed on September 17, 2012
- GG Current Report on Form 8-K, filed on October 19, 2012
- HH Current Report on Form 8-K, filed on January 17, 2013
- II Annual Report on Form 10-K, filed on March 28, 2013
- LL. Annual Report on Form 10-K for the year ended December 31, 2003
- (2) Management contract or compensatory plan or arrangement
- (3) Confidential treatment has been granted for the redacted portions of this agreement. A complete copy of this agreement, including the redacted portions, has been filed separately with the Securities and Exchange Commission.