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

FORM 10-K

(Mark O ⊠ Annual Report Under Section 13 Or 15(a	one) d) Of The Securities Exchange Act Of 1934
For the fiscal year ended	December 31, 2015
or	
☐ Transition Report Under Section 13 Or 15	(d) Of The Securities Exchange Act Of 1934
For the transition period	1 fromto
COMMISSION FILE N	UMBER: 000-52446
ACTINIUM PHARMA (Exact name of registrant as	
Delaware	74-2963609
(State or other jurisdiction of incorporation or organization)	(I.R.S. Employer Identification No.)
275 Madison Avo New York, N (Address of principal execut	Y 10016
(732) 243- Registrant's telephone numb	
Indicate by check mark if the registrant is a well-known seasoned issuer,	as defined in Rule 405 of the Securities Act. Yes \square No \boxtimes
Indicate by check mark if the registrant is not required to file report Yes □ No ☒	s pursuant to Section 13 or Section 15(d) of the Exchange Act.
Indicate by check mark whether the registrant: (1) has filed all repo Exchange Act of 1934 during the preceding 12 months (or for such shor (2) has been subject to such filing requirements for the past 90 days. Yes	rter period that the registrant was required to file such reports), and
Indicate by check mark whether the registrant has submitted electronic Date File required to be submitted and posted pursuant to Rule 405 of Roll 2 months (or for such shorter period that the registrant was required to	egulation S-T (Section 232.405 of the chapter) during the preceding
Indicate by check mark if disclosure of delinquent filers pursuant to Ite contained, to the best of registrant's knowledge, in definitive proxy or i Form 10-K or any amendment to this Form 10-K. □	
Indicate by check mark whether the registrant is a large accelerated filer company. See the definitions of "large accelerated filer," "accelerate Exchange Act. (Check one):	
Large accelerated filer \Box Non-accelerated filer \Box (Do not check if a smaller reporting company	Accelerated filer ⊠ Smaller reporting company □
Indicate by check mark whether the registrant is a shell company (as defi	ined in Rule 126-2 of the act): Yes □ No ⊠
The aggregate market value of voting stock held by nonaffiliates of the registrant's most recently completed second fiscal quarter, based on the c 2015 was \$102,508,000.	
As of March 10, 2016, 44,391,097 shares of common stock, \$0.001 par v	value per share, were outstanding.

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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K (this "Report") contains forward looking statements that involve risks and uncertainties, principally in the sections entitled "Description of Business," "Risk Factors," and "Management's Discussion and Analysis of Financial Condition and Results of Operations." All statements other than statements of historical fact contained in this prospectus, including statements regarding future events, our future financial performance, business strategy and plans and objectives of management for future operations, are forward-looking statements. We have attempted to identify forward-looking statements by terminology including "anticipates," "believes," "can," "continue," "could," "estimates," "expects," "intends," "may," "plans," "potential," "predicts," "should," or "will" or the negative of these terms or other comparable terminology. Although we do not make forward looking statements unless we believe we have a reasonable basis for doing so, we cannot guarantee their accuracy. These statements are only predictions and involve known and unknown risks, uncertainties and other factors, including the risks outlined under "Risk Factors" or elsewhere in this prospectus, which may cause our or our industry's actual results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time and it is not possible for us to predict all risk factors, nor can we address the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause our actual results to differ materially from those contained in any forward-looking statements. All forward-looking statements included in this document are based on information available to us on the date hereof, and we assume no obligation to update any such forward-looking statements.

You should not place undue reliance on any forward-looking statement, each of which applies only as of the date of this prospectus. Before you invest in our securities, you should be aware that the occurrence of the events described in the section entitled "Risk Factors" and elsewhere in this prospectus could negatively affect our business, operating results, financial condition and stock price. Except as required by law, we undertake no obligation to update or revise publicly any of the forward-looking statements after the date of this prospectus to conform our statements to actual results or changed expectations.

PART I

Item 1. Business.

Business Overview

Our most advanced products are ActimabTM-A, an antibody-drug construct containing actinium 225 (Ac-225), currently in human clinical trials for acute myeloid leukemia (AML) and IomabTM-B, an antibody-drug construct containing iodine 131 (I-131), used in myeloconditioning for hematopoietic stem cells transplantation (HSCT) in various indications. We are currently preparing for a Phase 3 trial of IomabTM-B for bone marrow conditioning for HSCT in relapsed and refractory AML patients age of 55 and older, which upon successful completion of our clinical trials we intend to submit for marketing approval. We are currently also considering filing an application with the U.S. Food and Drug Administration (FDA) for breakthrough therapy designation for ActimabTM-A and/or IomabTM-B. We are developing our cancer drugs using our expertise in radioimmunotherapy. In addition, our Ac-225 based drug development relies on the patented Alpha Particle Immunotherapy Technology (APIT) platform technology co-developed with Memorial Sloan Kettering Cancer Center (MSKCC), whose indirect subsidiary, Actinium Holdings Ltd., is a significant stockholder in our company. The APIT technology couples monoclonal antibodies (mAb) with extremely potent but comparatively safe alpha particle emitting radioactive isotopes, in particular actinium 225 and bismuth 213. The final drug construct is designed to specifically target and kill cancer cells while minimizing side effects. We intend to develop a number of products for different types of cancer and derive revenue from partnering relationships with large pharmaceutical companies and/or direct sales of its products in specialty markets in the United States.

Business Strategy

We intend to potentially develop our most advanced clinical stage product candidates through approval in the case of IomabTM-B, and up to and including a Phase 2 proof of concept human clinical trial (a trial designed to provide data on the drug's efficacy) in the case of ActimabTM-A. If these efforts are successful, we may elect to commercialize IomabTM-B on our own or with a partner in the United States and/or outside of the United States to out-license the rights to develop and commercialize the product to a strategic partner. In the case of ActimabTM-A, we will most likely seek to enter into strategic partnerships whereby the strategic partner(s) co-fund(s) further human clinical trials of the drug that are needed to obtain regulatory approvals for commercial sale within and outside of the United States. In parallel, we intend to identify and begin initial human trials with additional actinium-225 product candidates in other cancer indications. We intend to retain marketing rights for our products in the United States whenever possible and out-license marketing rights to our partners for the rest of the world. We may also seek to in license other applicable opportunities should such technology become available.

Market Opportunity

We are competing in the marketplace for cancer treatments estimated to reach over \$83-88 billion in 2016 sales, according to "The Global Use of Medicines: Outlook Through 2016 Report by the IMS Institute for Healthcare Informatics, July 2012". While surgery, radiation and chemotherapy remain staple treatments for cancer, their use is limited by the fact that they often cause substantial damage to normal cells. On the other hand, targeted monoclonal antibody therapies exert most or all of their effect directly on cancer cells, but often lack sufficient killing power to eradicate all cancer cells with just the antibody. A new approach for treating cancer is to combine the precision of antibody-based targeting agents with the killing power of radiation or chemotherapy by attaching powerful killing agents to precise molecular carriers called monoclonal antibodies (mAb). We use mAbs labeled with radioisotopes to deliver potent doses of radiation directly to cancer cells while sparing healthy tissues. The radioisotopes we use are the alpha emitter Ac-225 and the beta emitter I-131. I-131 is among the best known and well characterized radioisotopes. It is used very successfully in treatment of papillary and follicular thyroid cancer as well as other thyroid conditions. It is also attached to a monoclonal antibody in treatment of Non-Hodgkin's Lymphoma (NHL). It is also used experimentally with different carriers in other cancers. Ac-225 has many unique properties and we believe we are a leader in developing this alpha emitter for clinical applications using our proprietary Alpha particle Immunotherapy (APIT) technology.

Our most advanced products are ActimabTM-A, Ac-225 labeled mAb for treatment of newly diagnosed AML, a cancer of the blood, in patients ineligible for currently approved therapies; and IomabTM-B, I-131 labeled mAb for preparation of relapsed and refractory AML patients for HSCT. IomabTM-B offers a potentially curative treatment for these patients, most of whom do not survive beyond a year after being diagnosed with this condition. IomabTM-B has also demonstrated efficacy in HSCT preparation for other blood cancer indications, including myelodysplastic syndrome (MDS), acute lymphoblastic leukemia (ALL), Hodgkin's Lymphoma, and Non-Hodgkin's Lymphoma (NHL). These are all follow-on indications for which IomabTM-B can be developed and it is our intention to explore these opportunities if and when financing becomes available. We believe the aggregate worldwide market potential for the treatment of AML, MDS, ALL, Hodgkin's Lymphoma, multiple myeloma and NHL is approximately \$4.1 billion.

On December 16, 2015, Company announced that the FDA cleared the Company's IND filing for Iomab-B, and that it will proceed with the pivotal, Phase 3 clinical trial. Actinium anticipates the Phase 3, controlled, randomized, pivotal trial will begin enrolling patients in the first half of 2016 and assuming that the trial meets its end points, it will form the basis for a Biologics Licensing Application (BLA). The Company, in its recently approved IND filing, established an agreement with the FDA that the path to a Biologics License Application submission would include a single, pivotal Phase 3 clinical study if it is successful. The population in this two arm, randomized, controlled, multicenter trial will be refractory and relapsed Acute Myeloid Leukemia (AML) patients over the age of 55. The trial size was set at 150 patients with 75 patients per arm. The primary endpoint in the pivotal Phase 3 trial is durable complete remission, defined as a complete remission lasting at least 6 months and the secondary endpoint will be overall survival at one year. There are currently no effective treatments approved by the FDA for AML in this patient population and there is no defined standard of care. Iomab-B has completed several physicians sponsored clinical trials examining its potential as a conditioning regimen prior to HSCT in various blood cancers, including the Phase 1/2 study in relapsed and/or refractory AML patients. The results of these studies in over 300 patients have demonstrated the potential of Iomab-B to create a new treatment paradigm for bone marrow transplants by: expanding the pool to ineligible patients who do not have any viable treatment options currently; enabling a shorter and safer preparatory interval for HSCT; reducing post-transplant complications; and showing a clear survival benefit including curative potential.

Other potential product opportunities in which a significant amount of preclinical work is being undertaken include metastatic colorectal cancer, metastatic prostate cancer and antiangiogenesis which reduces the blood supply to solid tumors. We believe the worldwide market potential for the treatment of metastatic colorectal cancer is approximately \$4.8 billion, and we believe the worldwide market potential for the treatment of metastatic prostate cancer is approximately \$6.0 billion. We also believe the worldwide market potential for the treatment of Glioblastoma Multiforme, a potential indication based on antiangiogenesis approach, is approximately \$1.1 billion

We believe that our biggest market opportunity lies in the applicability of our APIT platform technology to a wide variety of cancers. A broad range of solid and blood borne cancers can be potentially targeted by mAbs to enable treatment with the APIT technology. The APIT technology could potentially be applied to mAbs that are already approved by the FDA to create more efficacious and/or safer drugs ("biobetters").

In November 2014, the FDA granted orphan-drug designation for ActimabTM-A. The FDA, through its Office of Orphan Products Development, grants orphan status to drugs and biologic products that are intended for the safe and effective treatment, diagnosis, or prevention of rare diseases or disorders that affect fewer than 200,000 people in the United States. Orphan drug designation provides a drug developer with certain benefits and incentives, including a period of marketing exclusivity if regulatory approval is ultimately received for the designated indication; potential tax credits on United States clinical trials; eligibility for orphan drug grants; and waiver of certain administrative fees.

Our Corporate History and Background

We were formed as a Nevada corporation on October 6, 1997, originally under the name Zurich U.S.A., Inc. On July 10, 2006, we changed our name to Cactus Ventures, Inc. and began pursuing our business of marketing sunglasses. The Company encountered numerous problems with various vendors and ceased its operations. The Company shifted its efforts to seeking a business combination opportunity with a business entity, and negotiated a merger of a target company into the Company. Upon ceasing its operations, the Company was considered a "blank check" or "Shell" company as such term is defined under the Securities Act. Upon completing the Share Exchange (as defined below), the Company ceased being considered a "blank check" or "Shell" company and is now a clinical-stage biopharmaceutical company developing certain cancer treatments.

On April 11, 2013, the change of domicile from the State of Nevada to the State of Delaware and the change of Cactus Ventures, Inc.'s name from Cactus Ventures, Inc. to Actinium Pharmaceuticals, Inc. became effective in accordance with Articles of Merger filed with the State of Nevada and a Certificate of Merger filed with the State of Delaware. In connection with the name change we also changed (i) the name of our subsidiary Actinium Pharmaceuticals, Inc. to Actinium Corporation, (ii) our par value to \$0.001 per share, and (iii) the number of authorized shares of preferred stock to 10 million shares. Effective April 18, 2013 our new trading symbol became ATNM. On September 25, 2013, we merged with our subsidiary, Actinium Corporation. In January 2014, we increased our authorized shares of common stock to 200 million shares and our authorized shares of preferred stock to 50 million shares.

Acquisition of Actinium

On December 28, 2012, Actinium Pharmaceuticals, Inc. ("Actinium") completed a share exchange with Cactus, whereby Cactus acquired 21% of the issued and outstanding capital stock of Actinium Corporation from the shareholders of Actinium Corporation (the "Actinium Shareholders") in exchange for the issuance of 4,333,489 shares of Common Stock of the Company to the Actinium Shareholders (the "Share Exchange"). As part of the Share Exchange, Actinium Corporation paid \$250,000 to the shareholders of Cactus before the consummation of the Share Exchange.

The Share Exchange was treated as a recapitalization effected through a share exchange, with Actinium Corporation as the accounting acquirer and the Company the accounting acquiree. Unless the context suggests otherwise, when we refer in this Report to business and financial information for periods prior to the consummation of the Share Exchange, we are referring to the business and financial information of Actinium Corporation.

As a result of the Share Exchange, the Company assumed the business and operations of Actinium Corporation. On April 11, 2013, the change of domicile from the State of Nevada to the State of Delaware and the change of Cactus Ventures, Inc.'s name from Cactus Ventures, Inc. to Actinium Pharmaceuticals, Inc. became effective in accordance with Articles of Merger filed with the State of Nevada and a Certificate of Merger filed with the State of Delaware.

As we are a "reporting company" under the Exchange Act of 1934, it is required to file periodic filings with the SEC.

On March 11, 2013, Actinium Corporation continued its Share Exchange with the Company, whereby we acquired an additional 36% of the issued and outstanding capital stock of Actinium Corporation from the Actinium Corporation Shareholders in exchange for the issuance of 7,756,840 shares of Common Stock of the Company to the Actinium Shareholders. On August 22, 2013, Actinium Corporation continued its Share Exchange with the Company, whereby the Company acquired an additional 38.2% of the issued and outstanding capital stock of Actinium Corporation from the Actinium Corporation Shareholders in exchange for the issuance of 6,383,475 shares of Common Stock of the Company to the Actinium Shareholders. On September 25, 2013 in accordance with a Certificate of Ownership Merging Actinium Corporation into the Company, the Company merged into itself Actinium Corporation, and Actinium Corporation ceased to exist. As a result of the merger, Actinium Corporation stock owned by the Company has been cancelled and each share of Actinium Corporation not owned by the Company was exchanged for 0.333 shares of Company common stock.

Corporate History of Actinium

Actinium Corporation was incorporated in 2000 in the state of Delaware. Until the Share Exchange, Actinium Corporation was a clinical-stage, privately held biopharmaceutical company with:

- Two clinical-stage products, IomabTM-B and ActimabTM-A, in development for blood borne cancers;
- Preclinical data in additional cancer indications;
- A proprietary technology platform for novel radioimmunotherapy cancer treatments; and
- A proprietary process for manufacturing of the alpha particle emitting radioactive isotope actinium 225 (Ac-225).

ActimabTM-A is currently in a Phase 1/2 trial in newly diagnosed elderly AML patients. In addition, using our patented APIT platform and via our collaboration with MSKCC, the Company has preclinical data on potential drug candidates in several other cancer indications and expects to further develop these into clinical stage drug candidates.

Actinium Corporation has one wholly owned subsidiary, MedActinium, Inc., a Delaware corporation, which is party to certain isotope related licenses and contracts on which we rely on.

Upon Actinium Corporation's formation in 2000, it acquired Pharmactinium, Inc. and MedActinium, Inc., and through Pharmactinium, Inc. acquired certain rights to the APIT platform. Core technology patents were in-licensed from N.V. Organon which also provided seed funding. Pharmactinium, Inc. was party to a research and development agreement with MSKCC beginning in 1996. In 2002, this agreement and relationship was significantly expanded and now includes research and development, preclinical development, clinical trials and commercial technology licenses. In 2007, Pharmactinium, Inc. was merged with and into the Company. In 2007, the Company also acquired its sister company, Actinium Pharmaceuticals, Limited (Bermuda) (the "Bermuda Company"), by a merger of the Bermuda Company into the Company and thereby also acquired certain patent licenses relating to APIT previously licensed by the Bermuda Company to the Company.

In 2000, we also began what has become a long term relationship with General Atlantic Investments Limited (GAIL), an entity which provided most of the Company's investment capital from 2000 through 2010, totaling \$40.8 million. In 2010, the parent of GAIL contributed and transferred its ownership of GAIL (now renamed Actinium Holdings, Limited), whose only asset at that time was the shares of API, to an indirect subsidiary of MSKCC. In January 2012, the Company closed on approximately \$6.7 million in net funding through the sale of our stock and a Senior Convertible Note financing. On December 19, 2012, Actinium completed a private offering of units, consisting of common stock, Series A warrants and Series B warrants. The price per unit was \$1.65 for aggregate net proceeds of \$4.5 million. The Series A Warrants had a 120 day term from January 28, 2013 and were exercisable for an aggregate of up to 3,118,968 shares of the Company's common stock at an initial per share exercise price of \$1.65, subject to adjustment. The Series A Warrants expired on May 28, 2013. The Series B Warrants have a five year term from January 28, 2013 and are exercisable for an aggregate of up to 1,559,484 shares of our common stock at an initial per share exercise price of \$2.48, subject to adjustment. In the second quarter of 2013, we issued shares of common stock pursuant to the exercise of A-Warrants originally issued in connection with a private placement that closed in December 2012. The warrants were exercised at \$1.65 per share, resulting in gross proceeds of \$3.5 million to the Company.

Our executive office is located at 275 Madison Ave, Floor, New York, NY 10016 and telephone number is (732) 243-9495. Our website address is http://www.actiniumpharma.com. Except as set forth below, the information on our website is not part of this Annual Report on Form 10-K.

Summary of Scientific and Business Achievements:

Our key scientific and business achievements to date include:

- Iomab-B related:
 - In-licensing a Phase 2 clinical stage monoclonal antibody, BC8, with safety and efficacy data in more than 250 patients in need of HSCT, currently in 7 active Phase 1 and Phase 2 clinical trials;
 - Obtaining clearance by the FDA to proceed with the Phase 3 trial Iomab-B; and
 - Commencing manufacturing development of commercial scale and quality production of Iomab-B.
- Actimab-A related:
 - Commencing a Company sponsored multi-center Phase 1/2 clinical trial for ActimabTM-A in elderly AML patients;
 - Developing and organizing manufacturing of Actinium's lead drug candidate ActimabTM-A which was accepted by the FDA for multi-center human use;
 - Supporting three physician sponsored clinical trials, including a Phase 1 and a Phase 1/2 trial with the alpha emitting radioactive isotope bismuth 213 (Bi-213) based AML drug and a Phase I clinical trial with the alpha emitting radioactive isotope actinium 225 (Ac-225) based AML drug; and
 - In-licensing the AML targeting monoclonal antibody known as HuM195 or Lintuzumab.

• General operations:

- Establishing clinical and preclinical development relationships with world-class institutions such as MSKCC, FHCRC and University of Texas MD Anderson Cancer Center (the MD Anderson Cancer Center relationship includes clinical trials only), as well as leading clinical experts in the fields of AML and HSCT;
- Securing rights to an intellectual property estate that covers key aspects of the Company's proprietary technology platform;
- Supporting several pipeline projects, including preclinical experiments in metastatic prostate cancer, metastatic colon cancer, antiangiogenesis and breast cancer models;
- Maintaining our contractual relationship with ORNL of the DOE that provides us access to the largest known supply reserves of actinium 225; and
- Successfully developing commercial production methods for actinium 225.

Clinical Trials

ActimabTM-A

ActimabTM-A is currently in multicenter Phase 1/2 clinical trial in AML. It consists of the monoclonal antibody Lintuzumab and alpha emitting radioisotope actinium 225 (Ac-225). The indication in the ongoing trial is newly diagnosed AML patients over the age of 60.

Previous clinical trials leading to this trial included:

- Phase 1 clinical trial with Bismab-A, the first generation product consisting of the same monoclonal antibody Lintuzumab and Bi-213 alpha emitter, a daughter of Ac-225;
- Phase 1/2 clinical trial with Bismab-A, the first generation product consisting of the same monoclonal antibody Lintuzumab and Bi-213 alpha emitter, a daughter of Ac-225; and
- Dose escalating pilot Phase 1 clinical trial with ActimabTM-A, the current product consisting of the Lintuzumab monoclonal antibody and Ac-225 alpha emitter.

Completed ActimabTM-A related clinical trials outcomes:

— The Phase 2 arm of the Bismab-A drug study has shown signs of the drug's efficacy and safety, including reduction in peripheral blast counts and complete responses in some patients. Bi-213 is a daughter, i.e., product of the degradation of Ac-225, with cancer cell killing properties similar to Ac-225 but is less potent. The Phase 1 ActimabTM-A trial at MSKCC with a single-dose administration of ActimabTM-A showed elimination of leukemia cells from blood in 67% of all evaluable patients who received a full dose and in 83% of those treated at dose levels above 0.5 microcuries per kilogram (μCi/kg), and eradication of leukemia cells in both blood and bone marrow in 20% of all evaluable patients and 25% of those treated at dose levels above 0.5 μCi/kg. Maximum tolerated single dose in this trial was established at 3 μCi/kg.

High potency means that a relatively low amount of drug is needed to produce a given effect. In preclinical and Phase 1 clinical studies, Actimab-A (225 Ac-lintuzumab) has demonstrated at least 500-1000 times higher potency than the first-generation predecessor (213 Bi-lintuzumab) upon which it is based. This difference is due to intrinsic physicochemical properties of Actimab-A that were first established *in vitro*, in which Actimab-A killed multiple cell lines at doses at least 1000 times lower (based on LD50 values) than Bismab-A analogs. Key factors in Actimab-A's higher potency are the yield of 4 alpha-emitting isotopes per 225 Ac (compared to 1 alpha decay for bismuth 213) and much longer half-life (10 day for 225 Ac vs 46 minutes for 213 Bi).

In preclinical animal models, doses in the nanocurie range prolonged survival. In humans, Actimab-A was previously studied in a Phase I monotherapy trial of relapsed or refractory AML patients at MSKCC. Dose levels in that study re-confirmed the substantially higher potency of Actimab-A, as compared to equivalent dosing of the first-generation Bismab-A (213 Bi-lintuzumab) construct, which had nevertheless established safety and efficacy in a Phase 1/2 trial in high-risk AML with cytoreduction.

Sources: Jurcic JG. Targeted Alpha-Particle Immunotherapy with Bismuth-213 and Actinium-225 for Acute Myeloid Leukemia. J. Postgrad Med Edu Res 2013, 47(1):14-17; ; JG Jurcic et al, Phase 1 Trial of the Targeted Alpha-Particle Nano-Generator Actinium-225 (225Ac)-Lintuzumab in Acute Myeloid Leukemia (AML) J Clin Oncol 29:2011 (suppl, abstr 6516); McDevitt MR et al, "Tumor Therapy with Targeted Atomic Nanogenerators" Science 2001, 294:1537—1540; Rosenblat TL et al, "Sequential cytarabine and alpha-particle immunotherapy with bismuth- 213-lintuzumab (HuM195) for acute myeloid leukemia" Clin Cancer Res. 2010, 16(21):5303-5311; Jurcic JG et al. "Phase I Trial of the Targeted Alpha-Particle Nano-Generator Actinium-225 (225Ac)-Lintuzumab in Acute Myeloid Leukemia (AML)" Blood (ASH Meeting Abstracts) 2012.

Ongoing ActimabTM-A trial:

We have commenced our first company sponsored Phase 1/2 multi-center trial with fractionated (two) doses of Actimab[™]-A, our lead product candidate for treatment of elderly AML that consists of an AML specific monoclonal antibody (HuM195, also known as Lintuzumab[™]) and the actinium 225 radioactive isotope attached to it. We are conducting this trial at world-class cancer institutions such as MSKCC, Johns Hopkins Medicine, University of Pennsylvania Health System, Fred Hutchinson Cancer Center and MD Anderson Cancer Center.

Bismabt-A trials and the Phase 1 ActimabTM-A trial were focused on relapsed, refractory and other difficult to treat acute myeloid leukemia patients. The current multicenter Phase 1/2 trial is focused on newly diagnosed AML patients who have historically had better outcomes. In addition, the new trial includes low doses of chemotherapy with the goal of further improving patient outcomes.

IomabTM-B

IomabTM-B is our product currently in preparation for a pivotal Phase 3 multicenter clinical trial. It consists of the monoclonal antibody BC8 and beta emitting radioisotope iodine 131 (I-131). The indication for that trial is bone marrow conditioning for HSCT in relapsed and refractory AML patients over the age of 55.

Previous IomabTM-B clinical trials leading to the planned Phase 3 trial currently in preparation included:

Indications	N	Key Findings
AML, MDS, ALL (adult)	34	-7/34 patients with median disease free state (DFS) of 17 years.-18/34 patients in remission at day 80
AML >1st remission (adult)	23	-15/23 in remission at day 28
AML 1st remission (age 16-50)	43	-23/43 DFS from 5-16 years -30/43 in remission at day 28 -33/43 in remission at day 80
III.d. ald MDC ad an ad AMI	(0 in days and display 1	CD (constitute anniesis A) in all actions
High-risk MDS, advanced AML (age 50+)	68 in dose escalation study 31 treated at MTD	 -CR (complete remission) in all patients -1 yr survival ~40% for all patients -1 yr survival ~45% for pts treated at MTD maximum tolerated dose)
		,
High-risk MDS, AML (age 18–50)	14 in dose escalation	All patients achieved full donor chimerism by day 28 post- transplant
High-risk MDS, AML -haploidentical donors (adult)	8 in dose escalation	-6/8 treated patients achieved CR by day.28 -8/8 patients 100% donor chimerism by day28

Ongoing IomabTM-B clinical trials include:

Indications	
Relapsed and refractory Hodgkin Lymphoma and NHL (adult)	Phase 1
Advanced AML, ALL and MDS (adult)	Phase 2
AML 1st remission (age 16-50)	Phase 2
High-risk MDS, advanced AML (age 16-50)	Phase 2

There are additional ongoing clinical trials with BC8 antibody labeled with yttrium 90 (Y-90).

Phase 3 IomabTM-B clinical trial in preparation:

While we do not have a Special Protocol Assessment from the FDA with respect to our planned Phase 3 trial of IomabTM-B, we have obtained FDA's comment and guidance on the Phase 3 clinical trial design, and the FDA has identified the following design features as generally acceptable, dependent on the results of the trial:

- Single pivotal study, pending trial results;
- Patient population: refractory AML patients age of 55 and older, where refractory is defined as either primary failure to achieve
 a complete remission after 2 cycles of induction therapy; relapsed after 6 months in complete remission; second or higher
 relapse; or relapsed disease not responding to intensive salvage therapy;
- Trial arms: study arm and control arm with physician's choice of conventional care with curative intent; and
- Trial size: 150 patients total (75 patients per arm).

Operations

Our current operations are primarily focused on furthering the development of our lead clinical drug candidates ActimabTM-A and IomabTM-B. In the case of ActimabTM-A, key ongoing activities include progressing a multi-center Phase 1/2 trial, support for an ongoing Phase 1 clinical trial at MSKCC, managing isotope and other materials supply chain, and managing the manufacturing of the finished drug candidate product. We have secured access to much of the currently available world reserves of Ac-225 and Bi-213 through a renewable contractual arrangement with the United States Department of Energy (DOE). We project that these quantities are sufficient to support early stages of commercialization of alpha isotopes based products. The Company has also developed its own proprietary process for industrial scale Ac-225 production in a cyclotron in quantities adequate to support full product commercialization.

Operations related to IomabTM-B include planning for a Phase 3 pivotal trial (a trial that leads to registration trial marketing approved by the FDA) which will include development of commercial scale manufacturing to be suitable for an approval trial and preparation of appropriate regulatory submissions.

For the years ended December 31, 2015, 2014 and 2013, we incurred approximately \$13.3 million, \$12.3 million and \$3.1 million, respectively, on research and development activities. These expenditures consisted of materials maintenance and purchases, supply chain development and implementation, drug candidate manufacturing expenditures, clinical trials costs and intellectual property portfolio related expenses. Since we have no customers, none of the costs of such research and development activities were borne by our customers. For the years ended December 31, 2015, 2014 and 2013, our net loss was approximately \$21.0 million, \$24.7 million and \$10.8 million, respectively.

Failure to raise additional equity or debt funding in the amounts necessary to complete our programs and/or failure to out license our programs on the projected terms may result in a delay of our projected development plan or our inability to complete one or more of the planned programs.

Summary of Material Agreements Related to Our Business

The Company has entered into license and research and development agreements with third parties under which the Company is obligated to make upfront payments as well as milestone and royalty payments. Notable inclusions in this category are:

a. AbbVie Biotherapeutics Corp. (formerly Abbott Biotherapeutics Corp.) – The Company entered into a Product Development and Patent License Agreement with AbbVie Biotherapeutics Corp. in 2003 to secure exclusive rights to a specific antibody when conjugated with alpha emitting radioisotopes. Upon execution of the agreement, the Company made a license fee payment of \$3,000,000.

The Company agreed to make milestone payments totaling \$7,750,000 for the achievement of the following agreed to and contracted milestones:

Milestones	Payments
(1) when Company initiates a Phase I Clinical Trial of a licensed product	\$ 750,000
(2) when Company initiates a Phase II Clinical Trial of a licensed product	750,000
(3) when Company initiates a Phase III Clinical Trial of a licensed product	1,500,000
(4) Biological License Application filing with U.S. FDA	1,750,000
(5) First commercial sale	1,500,000
(6) after the first \$10,000,000 in net sales	1,500,000

Under the agreement, the Company shall pay to AbbVie Biotherapeutics Corp on a country-by-country basis a royalty of 12% of net sales of all licensed products until the later of: (1) 12.5 years after the first commercial sale, or (2) when the patents expire.

The Company met its first milestone in 2012 and paid AbbVie Biotherapeutics Corp. a milestone payment of \$750,000 on July 24, 2012. The milestone payment for the Phase 1 Clinical Trial was recorded as research and development expense. The Company has not initiated a Phase 2 Clinical Trial and no payment has been made to AbbVie Biotherapeutics Corp. since the July 24, 2012 payment.

b. Memorial Sloan Kettering Cancer Center (MSKCC) -

In February 2002, we entered into a license agreement with MSKCC that requires a technology access fee of \$50,000 upon execution, an annual maintenance fee of \$50,000 and an annual research funding of \$50,000 for as long as the agreement is in force.

We agreed to make milestone payments totaling \$2.5 million for the achievement of contracted milestones. These milestones include (i) a payment of \$750,000 upon the filing of a New Drug Application ("NDA") or regulatory approval for each licensed product and (ii) a payment of \$1,750,000 upon the receipt of regulatory approval from the U.S. FDA for each licensed product. All the milestones and payments are related to products based on alpha emitter based products. Currently, the only such product in clinical development is Actimab-A. As of December 31, 2015, we had no outstanding balance with MSKCC.

Under the agreement, we agreed to pay to MSKCC on a country-by-country basis a royalty of 2% of net sales of all licensed products until the later of: (1) 10 years from the first commercial sale, or (2) when the patents expire. We expect to file the NDA for regulatory approval in 2018.

- c. Oak Ridge National Laboratory (ORNL) The Company is contracted to purchase radioactive material to be used for research and development, with a renewal option at the contract end. For the years ended December 31, 2015, 2014 and 2013, the Company purchased approximately \$0.8 million, \$0.6 million and \$0.3 million, respectively, of radioactive material with ORNL. On December 21, 2015, the Company signed a contract with ORNL to purchase \$0.9 million of radioactive material.
- d. Icon Clinical Research, LLC (formerly AptivSolutions) provides project management services for the study of the drug Ac-225-HuM195 (Actimab-A) used in the Company's Phase 1 and Phase 2 clinical trials. The total project was estimated to cost approximately \$1.9 million and required a 12.5% down payment of the total estimated project cost. The down payment totaling \$239,000 was paid in 2007 and 2012. On August 6, 2012, October 22, 2012 and May16, 2013, the agreement was amended to provide for additional services. The total project is now estimated at approximately \$2.7 million. AptivSolutions invoices the Company when services are rendered and the Company records the related expense to research and development expense. For the years ended December 31, 2015, 2014 and 2013, the Company incurred expenses of approximately \$0.4 million, \$0.4 million and \$0.3 million, respectively, related to this agreement.
- e. On June 15, 2012, the Company entered into a license and sponsored research agreement with Fred Hutchinson Cancer Research Center (FHCRC) to build upon previous and ongoing clinical trials, with BC8 (licensed antibody). FHCRC has currently completed Phase 1 and Phase 2 of the clinical trial and the Company intends to start preparation for a pivotal trial leading to an FDA approval. The Company has been granted exclusive rights to the BC8 antibody and related master cell bank developed by FHCRC. The cost to develop the trial will range from \$13.2 million to \$23.5 million, depending on the trial design as required by the FDA. Under the terms of the sponsored research agreement, the Company will fund the FHCRC lab with \$150,000 per year for the first two years and \$250,000 thereafter. Payments made toward funding the lab will be credited toward royalty payments owed to FHCRC in the given year. A milestone payment of \$1 million will be due to FHCRC upon FDA approval of the first drug. Upon commercial sale of the drug, royalty payments of 2% of net sales will be due to FHCRC. During the years ended December 31, 2015, 2014 and 2013, the Company recorded fees of approximately \$0.3 million, \$0.2 million and \$0.1 million, respectively, related to this agreement.
- f. On August 28, 2012, the Company entered into a clinical trial agreement with The University of Texas M.D. Anderson Cancer Center. The total estimated cost of conducting the clinical trial is approximately \$500,000, which includes a non-refundable institutional fee of \$14,500. The estimated cost is based on treating 24 patients through 2013. Upon execution of the agreement, the Company paid \$33,946. During 2015, 2014, and 2013 the Company recorded an expense of approximately \$0, \$0.1 million and \$0.3 million, respectively.

- g. On February 27, 2014, the Company entered into a manufacturing agreement with Goodwin Biotechnology Inc. ("Goodwin"). Goodwin oversees the current Good Manufacturing Practices (cGMP) production of a monoclonal antibody anticipated to be used in an upcoming phase 3 clinical trial of Iomab-B. Total cost of the agreement is \$5.0 million. The Company made a non-refundable payment of \$562,790 upon execution of the agreement. Periodic payments will be made upon reaching certain milestones. As of December 31, 2015, the remaining cost of the agreement is approximately \$1.5 million. Goodwin bills the Company when services are rendered and the Company records the related expense to research and development costs. For 2015 and 2014, the Company paid Goodwin approximately \$4.2 million and \$3.6 million, respectively. As of December 31, 2015 and December 31, 2014, the Company owed Goodwin \$0.1 million and \$0.7 million, respectively.
- h. On September 30, 2014, the Company entered into a research agreement with the Albert Einstein College of Medicine of Yeshiva University ("Einstein"). According to the agreement, Einstein will use certain materials provided by the Company to complete a research project. The research project will explore the feasibility of using Actinium 225 to prepare patients with blood borne cancers to receive a hematopoietic stem cell transplant. Einstein will periodically provide the Company with reports showing project data or research. The total fixed price of the project is \$183,391 which is payable to Einstein in three payments. During 2015 and 2014, we paid approximately \$ 0.1 million to Einstein.

Intellectual Property Portfolio

Intellectual Property

We have developed or in-licensed numerous patents and patent applications and possess substantial know-how and trade secrets relating to the development and commercialization of our products. As of March 10, 2016, our patent portfolio includes: 39 issued and pending patents, of which 7 are issued in the United States, 30 are issued or pending internationally, and 2 are pending in the United States. Many of the patents are in-licensed from third parties and some are held by us. These patents cover key areas of our business, including use of the actinium-225 and other alpha emitting isotopes attached to cancer specific carriers like monoclonal antibodies, methods for manufacturing key components of our product candidates including actinium-225 alpha emitting radioisotope and carrier antibodies, and methods for manufacturing finished product candidates for use in cancer treatment. The table below classifies these patents by related family:

Area	Description	US Expiration	US Status	Owner/ Licensor
Platform technology	Metastases larger than 1 mm	2019	Issued	MSKCC
Platform technology	Antibody conjugates with DOTA chelators; methods of treating cancer using the same	2021	Issued	MSKCC
Drug preparation methods	Actinium 225 labeling method (binding to an antibody)	2030	Pending	Owned
Drug preparation methods	Bismuth 213 labeling method (binding to an antibody)	2019	Issued	MSKCC
Isotope production methods	Actinium 225 manufacturing in a cyclotron	2026/2027	Issued	Owned
Monoclonal antibody composition and production	Manufacturing of leukemia targeting antibody	2014	Issued	Abbvie

There are no patents covering IomabTM-B; however, we have developed a proprietary strategy based on trade secret protection and the potential for orphan drug and data exclusivities. The BC8 antibody, cell line and related know-how has been exclusively licensed by us from the Fred Hutchinson Cancer Research Center (FHCRC) in exchange for milestones, royalties and research support.

Patents related to the antibody component of Actimab-A have been exclusively licensed by us from AbbVie Biotherapeutics Corp. (formerly Abbott Biotherapeutics Corp.) for use with alpha-emitting radioisotopes in exchange for future development and commercialization milestones, a royalty on net sales for a period of 12.5 years from first commercial sale, a negotiation right to be our clinical and/or commercial antibody supplier, a negotiation right to co-promote ActimabTM-A in the United States on terms to be negotiated, and the grant-back of IP rights covering improvements to the antibody for use other than with an alpha-emitting isotope. Patents covering actinium-225 conjugated to antibodies have been exclusively licensed by us from MSKCC in exchange for license fees, research support payments, development milestones, 2% royalties on net sales for the term of the licensed patents or, if later, 10 years from first commercial sale, and 15% of any sublicense income we may receive. We source actinium-225 under an agreement with the Oak Ridge National Laboratory (ORNL) that expires at the end of 2016. We believe, but cannot guarantee, that we will be able to renew this contract for additional annual periods.

Key Strengths

We believe that the key elements for our market success include:

- Clinical results to date imply lower development risk for its lead drug candidates: Our lead drug candidates have been tested in over 300 patients and demonstrated favorable safety and efficacy profiles. IomabTM-B has been administered to more than 250 patients in a number of Phase 1 and Phase 2 trials and has shown a clear survival benefit in the indication for which it is being developed. Bismab®-A and ActimabTM-A, drugs based on the APIT platform have to date been tested in over 60 patients in 3 clinical trials. In each trial they exhibited few side effects and have shown indications of efficacy. The current proof-of-concept ActimabTM-A Phase 1/2 clinical trial is directed at a patient population that is generally easier to treat (newly diagnosed vs. relapsed/refractory in previous trials), and employs a more potent treatment regimen (low dose chemotherapy plus two doses of ActimabTM-A plus low dose chemotherapy vs. a single dose of ActimabTM-A in the physician sponsored trial).
- Additional product opportunities from the APIT platform: Our APIT technology has the potential for broad applicability
 for the treatment of many cancer types, which allows us to add new product candidates to its pipeline based on well-defined
 patent protected methods.
- Collaboration with MSKCC: Our collaboration with MSKCC includes licensing, research and clinical trial arrangements
 involving MSKCC labs and clinicians and included financial support with respect to certain pre-2012 R&D-related expenses.
- Scientific backing of leading experts: Our clinical advisory board and collaborators include some of the most recognized
 clinicians and scientists working at some of the highest regarded medical institutions in the United States and the world,
 including MSKCC, Johns Hopkins University, University of Pennsylvania, FHCC and MD Anderson Cancer Center. This is
 expected to be beneficial to us both in clinical development and market acceptance assuming its drug candidates are approved.
- **Isotope supply secured for clinical trials:** We have a contractual relationship with ORNL of the DOE that provides us access to the largest known supply reserves of actinium 225. Iodine 131 is readily available from a number of qualified pharmaceutical supply vendors.
- Proprietary alpha emitting isotope manufacturing technology fully developed: We have developed our own proprietary technology for commercial scale manufacturing of actinium 225. This is expected to ensure commercial supply of Ac-225 for ActimabTM-A, ActimabTM-B and other actinium-linked products should they be approved.
- **cGMP ActimabTM-A manufacturing developed:** We have developed at a contractor's site full cGMP (current good manufacturing practices) manufacturing processes for our drug candidate ActimabTM-A.
- Substantial IP portfolio: We have an intellectual property portfolio in excess of 60 patents and patent applications, both in the United States and other countries, which cover clinical applications of the APIT technology and methods of manufacturing actinium 225 thus giving us control over both the applications of our technology and a supply chain of our key ingredients, actinium 225 and bismuth 213 alpha emitting isotopes.

Competition Overview

To our knowledge, there are no other commercial entities that have significant programs in place for developing Ac-225- or Bi-213-based drugs. In the wider field of medical oncology, we face competition from: developers of other alpha emitter based drug candidates, other radioimmunotherapy based technologies, technologies for labeling antibodies with toxic drugs (antibody-drug conjugates), and for each disease indication from all drugs available and/or in development.

For our lead indication, acute myeloid leukemia, there are a number of companies developing drugs for AML. These drugs are most often small molecules and as such have different safety profiles and mechanisms of action compared to our drug candidates. Acute myeloid leukemia in older patients remains an area of high medical need that could accommodate many new products with favorable safety and efficiency profiles.

In the field of hematopoietic stem cell transplantation, pharmaceuticals currently used for bone marrow ablation/conditioning are generic drugs and to our knowledge there are no significant industry efforts to enter this area, especially in older patients.

Government Regulation

Governmental authorities in the United States and other countries extensively regulate, among other things, the research, development, testing, manufacture, labeling, promotion, advertising, distribution and marketing of radioimmunotherapy pharmaceutical products such as those being developed by us. In the United States, the FDA regulates such products under the Federal Food, Drug and Cosmetic Act (FDCA) and implements regulations. Failure to comply with applicable FDA requirements, both before and after approval, may subject us to administrative and judicial sanctions, such as a delay in approving or refusal by the FDA to approve pending applications, warning letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions and/or criminal prosecution.

U.S. Food and Drug Administration Regulation

Our research, development and clinical programs, as well as our manufacturing and marketing operations, are subject to extensive regulation in the United States and other countries. Most notably, all of our products sold in the United States are subject to the FDA as implemented and enforced by the FDA. Certain of our product candidates in the United States require FDA pre-marketing approval of a BLA pursuant to 21 C.F.R. § 314. Foreign countries may require similar or more onerous approvals to manufacture or market these products.

Failure by us or by our suppliers to comply with applicable regulatory requirements can result in enforcement action by the FDA, the Nuclear Regulatory Commission or other regulatory authorities, which may result in sanctions, including but not limited to, untitled letters, warning letters, fines, injunctions, consent decrees and civil penalties; customer notifications or repair, replacement, refunds, recall, detention or seizure of our products; operating restrictions or partial suspension or total shutdown of production; refusing or delaying our requests for BLA premarket approval of new products or modified products; withdrawing BLA approvals that have already been granted; and refusal to grant export.

Employees

As of March 10, 2016, we have 18 full-time employees. None of these employees are covered by a collective bargaining agreement, and we believe our relationship with our employees is good. We also engage consultants on an as-needed basis to supplement existing staff.

ITEM 1A. RISK FACTORS.

In analyzing our company, you should consider carefully the following risk factors, together with all of the other information included in this Annual Report on Form 10-K. Factors that could cause or contribute to differences in our actual results include those discussed in the following subsection, as well as those discussed in "Management's Discussion and Analysis of Financial Condition and Results of Operations" and elsewhere throughout this Annual Report on Form 10-K. Each of the following risk factors, either alone or taken together, could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our company. The risks and uncertainties described below are not the only ones we face. Additional risks not currently known to us or other factors not perceived by us to present significant risks to our business at this time also may impair our business operations.

Risks Related to Our Business

We have generated no revenue from commercial sales to date and our future profitability is uncertain.

We have a limited operating history and our business is subject to all of the risks inherent in the establishment of a new business enterprise. Our likelihood of success must be considered in light of the problems, expenses, difficulties, complications and delays frequently encountered in connection with this development and expansion. Since we began our business, we have focused on research, development and clinical trials of product candidates, and have incurred losses since inception. As of December 31, 2015, we had an accumulated deficit of approximately \$112.2 million. If we continue to incur operating losses and fail to become a profitable company, we may be unable to continue our operations. We expect to continue to operate at a net loss as we continue our research and development efforts, continue to conduct clinical trials and develop manufacturing, sales, marketing and distribution capabilities. There can be no assurance that the products under development by us will be approved for sale in the United States or elsewhere. Furthermore, there can be no assurance that if such products are approved they will be successfully commercialized, and the extent of our future losses and the timing of our profitability are highly uncertain.

If we fail to obtain the capital necessary to fund our operations, we will be unable to continue or complete our product development and you will likely lose your entire investment.

Although we believe we have enough working capital for operations for the next 12 months, we do not currently have sufficient capital for the development and commercialization of our lead product candidate and we will need to continue to seek capital from time to time to continue development of our lead product candidates and to acquire and develop other product candidates. Our first product candidate is not expected to be commercialized, if approved, until at least 2018 and we do not expect that the partnering revenues it will generate will be sufficient to fund our ongoing operations. Our cash balance as of December 31, 2015 was approximately \$25.6 million. Throughout the year ended December 31, 2015, we raised total net proceeds of approximately \$37.8 million from the completion of public offerings of common stock, warrants and stock option exercises. We expect that we will need approximately \$20.0 million over the next 12 months to finance research and development and to cover our ongoing working capital needs.

Our business or operations may change in a manner that would consume available funds more rapidly than anticipated and substantial additional funding may be required to maintain operations, fund expansion, develop new or enhanced products, acquire complementary products, business or technologies or otherwise respond to competitive pressures and opportunities, such as a change in the regulatory environment or a change in preferred cancer treatment modalities. However, we may not be able to secure funding when we need it or on favorable terms.

To raise additional capital, we may in the future offer additional shares of our common stock or other securities convertible into or exchangeable for our common stock. We cannot assure you that we will be able to sell shares or other securities in any other offering at a price per share that is equal to or greater than the price per share paid by investors, and investors purchasing shares or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock or other securities convertible into or exchangeable for our common stock in future transactions may be higher or lower than the price per share in this offering. Additionally, you may incur dilution as a result of grants of equity awards under our equity incentive plans, or upon exercise of options or warrants currently outstanding with exercise prices at or below the public offering price of our common stock in this offering.

If we cannot raise adequate funds to satisfy our capital requirements, we will have to delay, scale-back or eliminate our research and development activities, clinical studies or future operations. We may also be required to obtain funds through arrangements with collaborators, which arrangements may require us to relinquish rights to certain technologies or products that we otherwise would not consider relinquishing, including rights to future product candidates or certain major geographic markets. We may further have to license our technology to others. This could result in sharing revenues which we might otherwise have retained for ourselves. Any of these actions may harm our business, financial condition and results of operations.

The amount of capital we may need depends on many factors, including the progress, timing and scope of our product development programs; the progress, timing and scope of our preclinical studies and clinical trials; the time and cost necessary to obtain regulatory approvals; the time and cost necessary to further develop manufacturing processes and arrange for contract manufacturing; our ability to enter into and maintain collaborative, licensing and other commercial relationships; and our partners' commitment of time and resources to the development and commercialization of our products.

We have limited access to the capital markets and even if we can raise additional funding, we may be required to do so on terms that are dilutive to you.

We have limited access to the capital markets to raise capital. The capital markets have been unpredictable in the recent past for radio-immunotherapy and other oncology companies and unprofitable companies such as ours. In addition, it is generally difficult for development stage companies to raise capital under current market conditions. The amount of capital that a company such as ours is able to raise often depends on variables that are beyond our control. As a result, we may not be able to secure financing on terms attractive to us, or at all. If we are able to consummate a financing arrangement, the amount raised may not be sufficient to meet our future needs. If adequate funds are not available on acceptable terms, or at all, our business, including our technology licenses, results of operations, financial condition and our continued viability will be materially adversely affected.

If we fail to obtain or maintain necessary FDA approval for our radio-immunotherapy products, or if such approvals are delayed, we will be unable to commercially distribute and market our products.

Our products are subject to rigorous regulation by the FDA and numerous other federal, state and foreign governmental authorities. The process of seeking regulatory approval to market a radio-immunotherapy product is expensive and time-consuming and, notwithstanding the effort and expense incurred, approval is never guaranteed. If we are not successful in obtaining timely approval of Company products from the FDA, we may never be able to generate significant revenue and may be forced to cease operations. In particular, the FDA permits commercial distribution of a new radio-immunotherapy product only after a Biologics License Application (BLA) for the product has received FDA approval. The BLA process is costly, lengthy and inherently uncertain. Any BLA filed by us will have to be supported by extensive data, including, but not limited to, technical, preclinical, clinical trial, manufacturing and labeling data, to demonstrate to the FDA's satisfaction the safety and efficacy of the product for its intended use. The lengthy approval process as well as the unpredictability of future clinical trial results may result in our failing to obtain regulatory approval to market our product candidates, which would significantly harm our business, results of operations and prospects. In addition, even if we were to obtain approval, regulatory authorities may approve any of our product candidates for fewer or more limited indications than we request, may not approve the price we intend to charge for our products, may grant approval contingent on the performance of costly post-marketing clinical trials, or may approve a product candidate with a label that does not include the labeling claims necessary or desirable for the successful commercialization of that product candidate. Any of the foregoing scenarios could materially harm the commercial prospects for our product candidates.

The approval process in the United States and in other countries could result in unexpected and significant costs for us and consume management's time and other resources. The FDA and other foreign regulatory agencies could ask us to supplement our submissions, collect non-clinical data, conduct additional clinical trials or engage in other time-consuming actions, or it could simply deny our applications. In addition, even if we obtain approval to market our products in the United States or in other countries, the approval could be revoked or other restrictions imposed if post-market data demonstrates safety issues or lack of effectiveness. We cannot predict with certainty how, or when, the FDA or other regulatory authorities will act. If we are unable to obtain the necessary regulatory approvals, our financial condition and cash flow may be materially adversely affected, and our ability to grow domestically and internationally may be limited. Additionally, even if we obtain approval, regulatory authorities may approve any of our product candidates for fewer or more limited indications that we request. The Company's products may not be approved for the specific indications that are most necessary or desirable for successful commercialization or profitability.

Our radio-immunotherapy product candidates are in the early stages of development; and we have not demonstrated that any of our products are safe and effective for any indication.

We currently have only two products in clinical development. We have commenced a Phase 1/2 multi- center AML trial with fractionated doses of ActimabTM-A under its own federal Investigational New Drug Application (IND). Additionally, there are a number of physician IND trials at the FHCRC that have been conducted or are currently ongoing at FHCRC with single doses of IomabTM-B. In December 2015, the FDA cleared our IND filing for Iomab-B, and that we will proceed with the pivotal, Phase 3 clinical trial. We anticipate the Phase 3, controlled, randomized, pivotal trial to begin enrolling in the first half of 2016 and assuming that the trial meets its end points, it will form the basis for a Biologics Licensing Application (BLA).

We cannot predict whether we will encounter problems with any of our ongoing or planned clinical trials that will cause us or regulatory authorities to delay, suspend, or discontinue clinical trials or to delay the analysis of data from ongoing clinical trials. Any of the following could delay or disrupt the clinical development of our product candidates and potentially cause our product candidates to fail to receive regulatory approval:

- conditions imposed on us by the FDA or comparable foreign authorities regarding the scope or design of our clinical trials;
- delays in receiving, or the inability to obtain, required approvals from institutional review boards (IRBs) or other reviewing entities at clinical sites selected for participation in our clinical trials;
- delays in enrolling patients into clinical trials;
- a lower than anticipated retention rate of patients in clinical trials;
- the need to repeat or discontinue clinical trials as a result of inconclusive or negative results or unforeseen complications in testing or because the results of later trials may not confirm positive results from earlier preclinical studies or clinical trials;
- inadequate supply, delays in distribution deficient quality of, or inability to purchase or manufacture drug product, comparator drugs or other materials necessary to conduct our clinical trials;

- unfavorable FDA or other foreign regulatory inspection and review of a clinical trial site or records of any clinical or preclinical investigation;
- serious and unexpected drug-related side effects experienced by participants in our clinical trials, which may occur even if they were not observed in earlier trials or only observed in a limited number of participants;
- a finding that the trial participants are being exposed to unacceptable health risks;
- the placement by the FDA or a foreign regulatory authority of a clinical hold on a trial; or
- delays in obtaining regulatory agency authorization for the conduct of our clinical trials.

We may suspend, or the FDA or other applicable regulatory authorities may require us to suspend, clinical trials of a product candidate at any time if we or they believe the patients participating in such clinical trials, or in independent third party clinical trials for drugs based on similar technologies, are being exposed to unacceptable health risks or for other reasons.

Further, individuals involved with our clinical trials may serve as consultants to us from time to time and receive stock options or cash compensation in connection with such services. If these relationships and any related compensation to the clinical investigator carrying out the study result in perceived or actual conflicts of interest, or the FDA concludes that the financial relationship may have affected interpretation of the study, the integrity of the data generated at the applicable clinical trial site may be questioned and the utility of the clinical trial itself may be jeopardized. The delay, suspension or discontinuation of any of our clinical trials, or a delay in the analysis of clinical data for our product candidates, for any of the foregoing reasons, could adversely affect our efforts to obtain regulatory approval for and to commercialize our product candidates, increase our operating expenses and have a material adverse effect on our financial results.

Clinical trials may also be delayed or terminated as a result of ambiguous or negative interim results. In addition, a clinical trial may be suspended or terminated by us, the FDA, the IRBs at the sites where the IRBs are overseeing a trial, or a data safety monitoring board, or DSMB, overseeing the clinical trial at issue, or other regulatory authorities due to a number of factors, including:

- failure to conduct the clinical trial in accordance with regulatory requirements or our clinical protocols;
- inspection of the clinical trial operations or trial sites by the FDA or other regulatory authorities resulting in the imposition of a clinical hold;
- varying interpretation of data by the FDA or similar foreign regulatory authorities;
- failure to achieve primary or secondary endpoints or other failure to demonstrate efficacy;
- unforeseen safety issues; or
- lack of adequate funding to continue the clinical trial.

Additionally, changes in regulatory requirements and guidance may occur and we may need to amend clinical trial protocols to reflect these changes. Amendments may require us to resubmit our clinical trial protocols to IRBs for reexamination, which may impact the cost, timing or successful completion of a clinical trial.

In addition, neither we nor any relevant collaborative partner(s) has yet undertaken any clinical assessment or investigation of Company radio-immunotherapy product candidates for other indications, including colon cancer or prostate cancer. Significant further investment may be required to acquire antibody rights and to undertake necessary research and continued development. Further laboratory and specific clinical testing will be required prior to regulatory approval of any product candidates. Adverse or inconclusive results from pre-clinical testing or clinical trials of product candidates may substantially delay, or halt entirely, any further development of one or more of our products. The projected timetables for continued development of the technologies and related product candidates by us may otherwise be subject to delay or suspension.

Modifications to our product candidates may require federal approvals.

The BLA application is the vehicle through which the company may formally propose that the FDA approve a new pharmaceutical for sale and marketing in the United States. Once a particular product candidate receives FDA approval, expanded uses or uses in new indications of our products may require additional human clinical trials and new regulatory approvals, including additional IND and BLA submissions and premarket approvals before we can begin clinical development, and/or prior to marketing and sales. If the FDA requires new approvals for a particular use or indication, we may be required to conduct additional clinical studies, which would require additional expenditures and harm our operating results. If the products are already being used for these new indications, we may also be subject to significant enforcement actions.

Conducting clinical trials and obtaining approvals can be a time-consuming process, and delays in obtaining required future approvals could adversely affect our ability to introduce new or enhanced products in a timely manner, which in turn would harm our future growth.

There is no guarantee that the FDA will approve BLAs for our product candidates and failure to obtain necessary approvals for our product candidates would adversely affect our ability to grow our business.

We have recently commenced a multi-center Phase 1/2 clinical trial for our lead product candidate, ActimabTM-A, in AML and in the future expect to submit a BLA to the FDA for approval of this product. This product candidate is also the subject of an ongoing human safety trial being conducted under a physician IND at MSKCC. We are in the early stages of evaluating other product candidates consisting of conjugates of Ac-225 with human or humanized antibodies for pre-clinical and clinical development in other types of cancer. In June 2012, we acquired rights to IomabTM, a Phase 2 clinical stage monoclonal antibody with safety and efficacy data in more than 250 patients in need of HSCT. Product candidates utilizing this antibody would also require BLA approval before they can be marketed in the United States. The FDA may not approve these products for the indications that are necessary or desirable for successful commercialization. Indeed, the FDA may fail to approve any BLA we submit for new product candidates or for new intended uses or indications for approved products or future product candidates. Failure to obtain FDA approval for our products in the proposed indications would have an adverse effect on our ability to expand our business.

Clinical trials necessary to support approval of BLAs for our product candidates will be time consuming and expensive. Delays or failures in our clinical trials may prevent us from commercializing our product candidates and will adversely affect our business, operating results and prospects and could cause us to cease operations.

Initiating and completing clinical trials necessary to support FDA approval of a BLA for ActimabTM-A and other product candidates, is a time-consuming and expensive process, and the outcome is inherently uncertain. Moreover, the results of early clinical trials are not necessarily predictive of future results, and any product candidate we advance into clinical trials may not have favorable results in later clinical trials. We have worked with the FDA to develop a clinical trial designed to test the initial safety and efficacy of ActimabTM-A in newly diagnosed AML patients over the age of 60, and on October 6, 2008, and January 5, 2009, we submitted IND amendments to the FDA for the conduct of a multi-center Phase 1/2 clinical trial for treatment of AML. The trial is now underway with the purpose of examining the use of ActimabTM-A in AML patients who are not eligible for approved forms of treatment with curative intent. The trial is not designed to support marketing approval for the product candidate, and one or more additional trials will have to be conducted in the future before we file a BLA. In addition, there can be no assurance that the data generated during the trial will meet our chosen safety and effectiveness endpoints or otherwise produce results that will eventually support the filing or approval of a BLA. Even if the data from this trial are favorable, these data may not be predictive of the results of any future clinical trials.

The issued patents, which are licensed by us for the HuM-195 antibody, our acute myeloid leukemia targeting antibody, may expire before we have commercialized $Actimab^{TM}$ -A.

The humanized antibody which we use in the conjugated ActimabTM-A product candidate is covered by the claims of issued patents that we license from Facet Biotech Corporation, a wholly-owned subsidiary of AbbVie Laboratories. After these patents expire, others may be eventually able to use an antibody with the same sequence, and we will then need to rely on additional patent protection covering alpha particle drug products comprising actinium 225. Any competing product based on the HuM-195 antibody is likely to require several years of development before achieving our product candidate's current status and may be subject to significant regulatory hurdles, but is nevertheless a possibility that can affect the Company's business in the future.

Additionally, because we expect that certain of these patents will expire prior to commercialization of ActimabTM-A, we expect that in order to attract a commercialization partner for that product candidate, we may need to reach an agreement with AbbVie to reduce the milestone payments and royalties currently required to be paid under our license agreement for HuM-195. There can be no assurance that the parties will be able to agree on an amendment to the terms of the license. Failure to reach such an agreement could materially adversely affect our ability to find a commercialization partner for ActimabTM-A which may materially harm our business.

Iomab TM -B is not patent protected.

Neither the antibody portion nor the composition of matter as a whole for the conjugated IomabTM product candidate is covered by the claims of any issued or pending patents. Accordingly, there are no patents that would prevent others from using an antibody with the same antibody sequence in any drug product (e.g., those comprising iodine 131 or alpha particle emitters). Any competing product based on the antibody used in Iomab-BTM is likely to require several years of development before achieving our product candidate's current status and may be subject to significant regulatory hurdles, but is nevertheless a possibility that could negatively impact the Company's business in the future.

We may be unable to obtain a sufficient supply of Ac-225 medical grade isotope in order to continue clinical trials and to allow for the manufacture of commercial quantities of Actimab $^{\mathrm{TM}}$ -A

There are limited quantities of Ac-225 available today. The existing supplier of Ac-225 to us is the ORNL, which is a science and energy national laboratory in the Department of Energy system. ORNL manufactures Ac-225 by eluting it from its supply of Thorium-229. Although this has proven to be a very reliable source of production for a number of years, it is limited by the quantity of Thorium-229 at ORNL. We believe that the current approximate maximum of Ac-225 production from this source is sufficient for approximately 1,000-2,000 patient treatments per year. Since our needs are significantly below that amount at this time, and will continue to be below that for as long as we do not have a commercial product with a potential of selling more than 2,000 patient doses per year, we believe that this supply will be sufficient for completion of clinical trials and early commercialization. To secure supplies beyond this amount, we have developed what we believe to be a scalable cost-effective process for manufacturing Ac-225 in a cyclotron at an estimated cost in excess of \$5 million. This work has been conducted at Technical University Munich (TUM) in Germany. We are now in possession of detailed descriptions of all the developed manufacturing procedures and have rights to all relevant patent applications and other intellectual property. However, we do not currently have access to a commercial cyclotron capable of producing medical grade Ac-225. Although beam time on such cyclotrons is commercially available, we do not currently have a relationship with any entity that owns or controls a suitable cyclotron. We have identified possible sources and estimate that we could secure the necessary beam time when needed at a cost of approximately \$2 million per year. In the meantime, our contract for supply of this isotope from ORNL must be renewed yearly, and the current contract extends through the end of 2016. While we expect this contract will be renewed at the end of its term, there can be no assurance that ORNL will decide to renew the contract or that the United States Department of Energy will not change its policies that allow for the sale of isotope to us. Failure to acquire sufficient quantities of medical grade Ac-225 would make it impossible to effectively complete clinical trials and to commercialize ActimabTM-A and would materially harm our business.

Conducting successful clinical studies may require the enrollment of large numbers of patients, and suitable patients may be difficult to identify and recruit.

Patient enrollment in clinical trials and completion of patient participation and follow-up depends on many factors, including the size of the patient population; the nature of the trial protocol; the availability of approved effective treatments for the relevant disease; competition from other clinical trial programs for similar indications; the attractiveness of, or the discomforts and risks associated with, the treatments received by enrolled subjects; the availability of appropriate clinical trial investigators; support staff; and proximity of patients to clinical sites and ability to comply with the eligibility and exclusion criteria for participation in the clinical trial and patient compliance. For example, patients may be discouraged from enrolling in our clinical trials if the trial protocol requires them to undergo extensive post-treatment procedures or follow-up to assess the safety and effectiveness of our product candidates or if they determine that the treatments received under the trial protocols are not attractive or involve unacceptable risks or discomforts. Patients may also not participate in our clinical trials if they choose to participate in contemporaneous clinical trials of competitive product candidates. In addition, patients participating in refractory AML clinical trials are seriously and often terminally ill and therefore may not complete the clinical trial due to reasons including comorbid conditions or occurrence of adverse medical events related or unrelated to the investigational products, or death.

Development of sufficient and appropriate clinical protocols to demonstrate safety and efficacy are required and we may not adequately develop such protocols to support approval.

The FDA may require us to submit data on a greater number of patients than we originally anticipated and/or for a longer follow-up period or change the data collection requirements or data analysis applicable to our clinical trials. It may also require additional data on certain categories of patients, should it emerge during the conduct of our clinical trials that certain categories of patients are likely to be affected in different and/or additional manners than the rest of the patient population. In addition to FDA requirements, our clinical trials require the approval of the IRB at each site selected. We have submitted our clinical trial protocol for our current ActimabTM-A clinical trial to the IRBs at participating sites for approval and we have thus far obtained approval from seven IRBs. Our clinical trial protocols have not been rejected by any IRB to date.

FDA may take actions that would prolong, delay, suspend, or terminate clinical trials of our product candidates, which may delay or prevent us from commercializing our product candidates on a timely basis, causing us to incur additional costs and delay our receipt of any revenue from potential product sales.

There can be no assurance that the data generated in our clinical trials will be acceptable to FDA or that if future modifications during the trial are necessary, that any such modifications will be acceptable to FDA. Certain modifications to a clinical trial protocol made during the course of the clinical trial have to be submitted to the FDA. This could result in the delay or halt of a clinical trial while the modification is evaluated. In addition, depending on the quantity and nature of the changes made, FDA could take the position that some or all of the data generated by the clinical trial is not usable because the same protocol was not used throughout the trial. This might require the enrollment of additional subjects, which could result in the extension of the clinical trial and the FDA delaying approval of a product candidate. If the FDA believes that its prior approval is required for a particular modification, it can delay or halt a clinical trial while it evaluates additional information regarding the change.

Serious injury or death resulting from a failure of one of our product candidates during current or future clinical trials could also result in the FDA delaying our clinical trials or denying or delaying approval of a product candidate.

The Phase 1 portion of the ongoing Phase 1/2 clinical trial for ActimabTM-A being conducted at seven clinical centers in the United States (MSKCC, MD Anderson Cancer Center, Fred Hutchinson Cancer Research Center, Johns Hopkins Medicine, University of Pennsylvania Health System, Baylor Summons Cancer Center and Columbia University Medical Center) was designed to establish the maximum tolerated dose of the product. As the Company expected, patients receiving highest dose of the drug administered in the trial so far had prolonged bone marrow suppression which could lead to fatal infections and other severe consequences. Consequently, the dose levels of our drug in that trial were reduced as we continue our work on establishing maximum tolerated dose.

Even though an adverse event may not be the result of our product candidate, the FDA or an IRB could delay or halt a clinical trial for an indefinite period of time while an adverse event is reviewed, and likely would do so in the event of multiple such events.

Any delay or termination of our current or future clinical trials as a result of the risks summarized above, including delays in obtaining or maintaining required approvals from IRBs, delays in patient enrollment, the failure of patients to continue to participate in a clinical trial, and delays or termination of clinical trials as a result of protocol modifications or adverse events during the trials, may cause an increase in costs and delays in the filing of any submissions with the FDA, delay the approval and commercialization of our product candidates or result in the failure of the clinical trial, which could adversely affect our business, operating results and prospects. Lengthy delays in the completion of our ActimabTM-A clinical trials would adversely affect our business and prospects and could cause us to cease operations.

If the third parties on which we rely to conduct our clinical trials and to assist us with pre-clinical development do not perform as contractually required or expected, or fail to comply with applicable regulations and standards, we may not be able to obtain regulatory approval for or commercialize our product candidates.

We do not have the ability to independently conduct our pre-clinical and clinical trials for our product candidates and we must rely on third parties, such as contract research organizations, medical institutions, clinical investigators and contract laboratories to conduct such trials. Our reliance on these third parties for clinical development activities results in reduced control over these activities. Moreover, the FDA requires us to comply with regulations and standards, commonly referred to as GCPs, for conducting, recording and reporting the results of clinical trials to assure that data and reported results are credible and accurate and that the trial participants are adequately protected. Our reliance on third parties does not relieve us of these responsibilities and requirements. If we or any of our third party contractors fail to comply with applicable GCPs, the clinical data generated in our clinical trials may be deemed unreliable and the FDA or comparable foreign regulatory authorities may require us to perform additional clinical trials before approving our marketing applications. We cannot assure you that upon inspection by a given regulatory authority, such regulatory authority will determine that any of our clinical trials complies with GCP regulations. In addition, our clinical trials must be conducted with product produced under current good manufacturing practice, or cGMP, regulations. Our failure to comply with these regulations may require us to repeat clinical trials, which would delay the regulatory approval process.

To date, we believe our consultants, contract research organizations and other similar entities with which we are working have performed well; however, if these third parties do not successfully carry out their contractual duties, meet expected deadlines, or comply with applicable regulations, we may be required to replace them. Although we believe that there are a number of other third-party contractors we could engage to continue these activities, we may not be able to enter into arrangements with alternative third-party contractors or to do so on commercially reasonable terms, which may result in a delay of our planned clinical trials. Accordingly, we may be delayed in obtaining regulatory approvals for our product candidates and may be delayed in our efforts to successfully develop our product candidates.

In addition, our third-party contractors are not our employees, and except for remedies available to us under our agreements with such third-party contractors, we cannot control whether or not they devote sufficient time and resources to our ongoing clinical, nonclinical and preclinical programs. If these third parties do not successfully carry out their contractual duties or regulatory obligations or meet expected deadlines, if these third parties need to be replaced, or if the quality or accuracy of the data they obtain is compromised due to the failure to adhere to our clinical protocols or regulatory requirements or for other reasons, our pre-clinical development activities or clinical trials may be extended, delayed, suspended or terminated, and we may not be able to obtain regulatory approval for, or successfully commercialize, our product candidates on a timely basis, if at all, and our business, operating results and prospects may be adversely affected. Furthermore, our third-party clinical trial investigators may be delayed in conducting our clinical trials for reasons outside of their control.

The future results of our current or future clinical trials may not support our product candidate claims or may result in the discovery of unexpected adverse side effects.

Even if our clinical trials are completed as planned, we cannot be certain that their results will support our product candidate claims or that the FDA or foreign authorities will agree with our conclusions regarding them. Success in pre-clinical studies and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be sure that the later trials will replicate the results of prior trials and pre-clinical studies. The clinical trial process may fail to demonstrate that our product candidates are safe and effective for the proposed indicated uses. If FDA concludes that the clinical trials for ActimabTM-A, or any other product candidate for which we might seek approval, have failed to demonstrate safety and effectiveness, we would not receive FDA approval to market that product candidate in the United States for the indications sought. In addition, such an outcome could cause us to abandon the product candidate and might delay development of others. Any delay or termination of our clinical trials will delay or preclude the filing of any submissions with the FDA and, ultimately, our ability to commercialize our product candidates and generate revenues. It is also possible that patients enrolled in clinical trials will experience adverse side effects that are not currently part of a product candidate's profile. In addition, our clinical trials for ActimabTM-A involve a relatively small patient population. Because of the small sample size, their results may not be indicative of future results.

Our product candidates for which we intend to seek approval as biologic products may face competition sooner than anticipated.

Our product candidates are regulated by the FDA as biologic products and we intend to seek approval for these products pursuant to the BLA pathway. The Biologics Price Competition and Innovation Act of 2009, or BPCIA, created an abbreviated pathway for the approval of biosimilar and interchangeable biologic products. The abbreviated regulatory pathway establishes legal authority for the FDA to review and approve biosimilar biologics, including the possible designation of a biosimilar as "interchangeable" based on its similarity to an existing brand product. Under the BPCIA, an application for a biosimilar product cannot be approved by the FDA until 12 years after the original branded product was approved under a BLA. The law is complex and is still being interpreted and implemented by the FDA. As a result, its ultimate impact, implementation, and meaning are subject to uncertainty. While it is uncertain when such processes intended to implement BPCIA may be fully adopted by the FDA, any such processes could have a material adverse effect on the future commercial prospects for our biologic products.

ActimabTM-A and future product candidates may never achieve market acceptance.

ActimabTM-A and future product candidates that we may develop may never gain market acceptance among physicians, patients and the medical community. The degree of market acceptance of any of product will depend on a number of factors, including the actual and perceived effectiveness and reliability of the product; the results of any long-term clinical trials relating to use of the product; the availability, relative cost and perceived advantages and disadvantages of alternative technologies; the degree to which treatments using the product are approved for reimbursement by public and private insurers; the strength of our marketing and distribution infrastructure; and the level of education and awareness among physicians and hospitals concerning the product.

Failure of ActimabTM-A or any of our other product candidates to significantly penetrate current or new markets would negatively impact our business financial condition and results of operations.

To be commercially successful, physicians must be persuaded that using our product candidates for treatment of AML and other cancers, if approved for those indications, are effective alternatives to existing therapies and treatments.

We believe that oncologists and other physicians will not widely adopt a product candidate unless they determine, based on experience, clinical data, and published peer-reviewed journal articles, that the use of that product candidate provides an effective alternative to other means of treating specific cancers. Patient studies or clinical experience may indicate that treatment with our product candidates does not provide patients with sufficient benefits in extension of life or quality of life. We believe that recommendations and support for the use of each product candidate from influential physicians will be essential for widespread market acceptance. Our product candidates are still in the development stage and it is premature to attempt to gain support from physicians at this time. We can provide no assurance that such support will ever be obtained. If our product candidates do not receive such support from these physicians and from long-term data, physicians may not use or continue to use, and hospitals may not purchase or continue to purchase, them.

Both before and after marketing approval, our product candidates are subject to ongoing regulatory requirements and continued regulatory review, and if we fail to comply with these continuing regulatory requirements, we could be subject to a variety of sanctions and the sale of any approved products could be suspended.

Both before and after regulatory approval to market a particular product candidate, the manufacturing, labeling, packaging, adverse event reporting, storage, advertising, promotion, distribution and record keeping related to the product are subject to extensive, ongoing regulatory requirements enforced by FDA and other similar regulatory bodies. Additionally, because our product candidates include radio-active isotopes, they will be subject to additional regulation and oversight from the United States Nuclear Regulatory Commission (NRC) and similar bodies in other jurisdictions. The FDA regulatory requirements include submissions of safety and other post-marketing information and reports, registration, as well as continued compliance with cGMP requirements and GCP requirements for any clinical trials that we conduct post-approval. Any regulatory approvals that we receive for our product candidates may also be subject to limitations on the approved indicated uses for which the product may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing, including Phase IV clinical trials, and surveillance to monitor the safety and efficacy of the product candidate. Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, or with our third-party manufacturers or manufacturing processes, or failure to comply with the regulatory requirements of the FDA and other applicable U.S. and foreign regulatory authorities could subject us to administrative or judicially imposed sanctions, including:

- restrictions on the marketing of our products or their manufacturing processes;
- warning letters;
- civil or criminal penalties;
- fines;
- injunctions;
- product seizures or detentions;
- import or export bans;
- voluntary or mandatory product recalls and related publicity requirements;
- suspension or withdrawal of regulatory approvals;
- total or partial suspension of production; and
- refusal to approve pending applications for marketing approval of new products or supplements to approved applications.

The FDA's policies may change and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, which would adversely affect our business, prospects and ability to achieve or sustain profitability.

Even if regulatory approval of a product candidate is granted, such approval may be subject to limitations on the intended uses for which a product may be marketed and reduce the potential to successfully commercialize that product and generate revenue from that product. If the FDA determines that the product promotional materials, labeling, training or other marketing or educational activities constitute promotion of an unapproved use, it could request that we or our commercialization partners cease or modify our training or promotional materials or subject us to regulatory enforcement actions. It is also possible that other federal, state or foreign enforcement authorities might take action if they consider such training or other promotional materials to constitute promotion of an unapproved use, which could result in significant fines or penalties under other statutory authorities, such as laws prohibiting false claims for reimbursement.

Our revenue stream will depend upon third party coverage and reimbursement of our product candidates, if approved.

The commercial success of our product candidates in both domestic and international markets will be substantially dependent on whether third-party coverage and reimbursement is available for patients that use our products. However, the availability of insurance coverage and reimbursement for newly approved cancer therapies is uncertain, and therefore, third-party coverage may be particularly difficult to obtain even if our products are approved by the FDA as safe and efficacious. Patients using existing approved therapies are generally reimbursed all or part of the product cost by Medicare or other third-party payors. Medicare, Medicaid, health maintenance organizations and other third-party payors are increasingly attempting to contain healthcare costs by limiting both coverage and the level of reimbursement of new drugs, and, as a result, they may not cover or provide adequate payment for these products. Submission of applications for reimbursement approval generally does not occur prior to the filing of a BLA for that product and may not be granted until many months after BLA approval. In order to obtain coverage and reimbursement for these products, we or our commercialization partners may have to agree to a net sales price lower than the net sales price we might charge in other sales channels. The continuing efforts of government and third-party payors to contain or reduce the costs of healthcare may limit our revenue. Initial dependence on the commercial success of our products may make our revenues particularly susceptible to any cost containment or reduction efforts.

We have no manufacturing capacity and depend on third-party manufacturers to produce our pre-clinical and clinical trial drug supplies.

We do not currently operate manufacturing facilities for pre-clinical or clinical production of any of our product candidates. We lack experience in drug manufacturing, and we lack the resources and the capabilities to manufacture any of our product candidates on a clinical or commercial scale. As a result, we rely on a third-party manufacturer to supply, store, and distribute pre-clinical and clinical supply of our product candidates, and plan to continue to do so for the foreseeable future. Any performance failure on the part of our existing or future manufacturers could delay clinical development or regulatory approval of our product candidates or commercialization of any approved products, producing additional losses and depriving us of potential product revenue.

Our product candidates require precise, high quality manufacturing. Failure by our contract manufacturer to achieve and maintain high manufacturing standards could result in patient injury or death, product recalls or withdrawals, delays or failures in testing or delivery, cost overruns, or other problems that could seriously hurt our business. Contract manufacturers may encounter difficulties involving production yields, quality control, and quality assurance. These manufacturers are subject to ongoing periodic and unannounced inspections by the FDA and corresponding state and foreign agencies to ensure strict compliance with cGMPs and other applicable government regulations and corresponding foreign standards; however, we do not have control over third-party manufacturers' compliance with these regulations and standards.

If a contract manufacturer cannot perform as agreed, we may be required to replace it. We may incur added costs and delays in identifying and qualifying replacements because the FDA must approve any replacement manufacturer prior to manufacturing our product candidates. Such approval would require new testing and compliance inspections. In addition, a new manufacturer would have to be educated in, or develop substantially equivalent processes for, production of our product candidates after receipt of FDA approval.

We anticipate continued reliance on third parties for manufacturing and marketing, if we are successful in obtaining marketing approval from the FDA and other regulatory agencies for any of our product candidates. If we are not able to secure favorable arrangements with such third parties, our business and financial condition would be harmed, and our commercialization of any of our product candidates may be halted, delayed or made less profitable if those third parties fail to obtain such approvals, fail to provide us with sufficient quantities of product or fail to do so at acceptable quality levels or prices.

To date, our product candidates have been manufactured in small quantities for preclinical and clinical testing by third-party manufacturers. If the FDA or other regulatory agencies approve any of our product candidates for commercial sale, we expect that we would continue to rely, at least initially, on third-party specialized manufacturers to produce commercial quantities of approved products. These manufacturers may not be able to successfully increase the manufacturing capacity for any approved product in a timely or economic manner, or at all. Significant scale-up of manufacturing may require additional validation studies, which the FDA must review and approve. If third party manufacturers are unable to successfully increase the manufacturing capacity for a product candidate, or we are unable to establish our own manufacturing capabilities, the commercial launch of any approved products may be delayed or there may be a shortage in supply, which in turn could have a material adverse effect on our business.

In addition, the facilities used by our contract manufacturers to manufacture our product candidates must be approved by the FDA pursuant to inspections that will be conducted after we submit a BLA to the FDA. We do not control the manufacturing process of, and are completely dependent on, our contract manufacturing partners for compliance with cGMPs. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or other regulatory authorities, they will not be able to secure and/or maintain regulatory approval for their manufacturing facilities. If the FDA or a comparable foreign regulatory authority does not approve these facilities for the manufacture of our product candidates or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact our ability to develop, obtain regulatory approval for or market our product candidates, if approved.

We also intend to partner with larger pharmaceutical companies for the commercialization of any of our product candidates that are approved. In connection with our efforts to commercialize our product candidates, we will seek to secure favorable arrangements with third parties to distribute, promote, market and sell them. If we are not able to secure favorable commercial terms or arrangements with third parties for distribution, marketing, promotion and sales of our product candidates, we may have to retain promotional and marketing rights and seek to develop the commercial resources necessary to promote or co-promote or co-market certain or all of our product candidates to the appropriate channels of distribution in order to reach the specific medical market that we are targeting. We may not be able to enter into any partnering arrangements on this or any other basis. If we are not able to secure favorable partnering arrangements, or are unable to develop the appropriate resources necessary for the commercialization of our product candidates, our business and financial condition could be harmed. In addition, we will have to hire additional employees or consultants, since our current employees have limited experience in these areas. Sufficient employees with relevant skills may not be available to us. Any increase in the number of our employees would increase our expense level, and could have an adverse effect on our financial position.

In addition, we, or our potential commercial partners, may not successfully introduce our product candidates or they may not achieve acceptance by patients, health care providers and insurance companies. Further, it is possible that we may not be able to secure arrangements to manufacture, market, distribute, promote and sell our product candidates at favorable commercial terms that would permit us to make a profit. To the extent that corporate partners conduct clinical trials, we may not be able to control the design and conduct of these clinical trials.

We may have conflicts with our partners that could delay or prevent the development or commercialization of our product candidates.

We may have conflicts with our partners, such as conflicts concerning the interpretation of preclinical or clinical data, the achievement of milestones, the interpretation of contractual obligations, payments for services, development obligations or the ownership of intellectual property developed during our collaboration. If any conflicts arise with any of our partners, such partner may act in a manner that is adverse to our best interests. Any such disagreement could result in one or more of the following, each of which could delay or prevent the development or commercialization of our product candidates, and in turn prevent us from generating revenues: unwillingness on the part of a partner to pay us milestone payments or royalties we believe are due under a collaboration; uncertainty regarding ownership of intellectual property rights arising from our collaborative activities, which could prevent us from entering into additional collaborations; unwillingness by the partner to cooperate in the development or manufacture of the product, including providing us with product data or materials; unwillingness on the part of a partner to keep us informed regarding the progress of its development and commercialization activities or to permit public disclosure of the results of those activities; initiating litigation or alternative dispute resolution options by either party to resolve the dispute; or attempts by either party to terminate the agreement.

Upon commercialization of our product candidates, we may be dependent on third parties to market, distribute and sell them.

Our ability to generate revenues may be dependent upon the sales and marketing efforts of any future co-marketing partners and third-party distributors. At this time, we have not entered into an agreement with any commercialization partner and only plan to do so after the successful completion of Phase 2 clinical trials and prior to commercialization. If we fail to reach an agreement with any commercialization partner, or if upon reaching such an agreement that partner fails to sell a large volume of our products, it may have a negative impact on our business, financial condition and results of operations.

Our product candidates will face significant competition in the markets for them, and if they are unable to compete successfully, our business will suffer.

Our product candidates face, and will continue to face, intense competition from large pharmaceutical companies, as well as academic and research institutions. We compete in an industry that is characterized by (i) rapid technological change, (ii) evolving industry standards, (iii) emerging competition and (iv) new product introductions. Our competitors have existing products and technologies that will compete with our product candidates and technologies and may develop and commercialize additional products and technologies that will compete with our product candidates and technologies. Because several competing companies and institutions have greater financial resources than us, they may be able to (i) provide broader services and product lines, (ii) make greater investments in research and development, or R&D, and (iii) carry on broader R&D initiatives. Our competitors also have greater development capabilities than we do and have substantially greater experience in undertaking preclinical and clinical testing of product candidates, obtaining regulatory approvals, and manufacturing and marketing pharmaceutical products. They also have greater name recognition and better access to customers than us. Our chief competitors include companies such as Bayer AG, GlaxoSmithKline Plc and Spectrum Pharmaceuticals, Inc. and others.

If side effects are identified during the time our product candidates are in development or after they are approved and on the market, we may choose to or be required to perform lengthy additional clinical trials, discontinue development of the affected product candidate, change the labeling of any such products, or withdraw or recall any such products from the market, any of which would hinder or preclude our ability to generate revenues.

Undesirable side effects caused by our product candidates could cause us or regulatory authorities to interrupt, delay or halt clinical trials and could result in a more restrictive label or the delay or denial of regulatory approval by the FDA or other comparable foreign authorities. The drug-related side effects could affect patient recruitment or the ability of enrolled patients to complete the trial or result in potential product liability claims. Any of these occurrences may harm our business, financial condition and prospects significantly. Even if any of our product candidates receives marketing approval, as greater numbers of patients use a product following its approval, an increase in the incidence of side effects or the incidence of other post-approval problems that were not seen or anticipated during pre-approval clinical trials could result in a number of potentially significant negative consequences, including:

- regulatory authorities may withdraw their approval of the product;
- regulatory authorities may require the addition of labeling statements, such as warnings or contraindications;
- we may be required to change the way the product is administered, conduct additional clinical trials or change the labeling of the product;

- we may elect, or we may be required, to recall or withdraw product from the market;
- we could be sued and held liable for harm caused to patients; and
- our reputation may suffer.

Any of these events could substantially increase the costs and expenses of developing, commercializing and marketing any such product candidates or could harm or prevent sales of any approved products.

Our business depends upon securing and protecting critical intellectual property.

Our commercial success will depend in part on our obtaining and maintaining patent, trade secret, copyright and trademark protection of our technologies in the United States and other jurisdictions, as well as successfully enforcing this intellectual property and defending this intellectual property against third-party challenges. We will only be able to protect our technologies from unauthorized use by third parties to the extent that valid and enforceable intellectual property protection, such as patents or trade secrets law, cover them. In particular, we place considerable emphasis on obtaining patent and trade secret protection for significant new technologies, products and processes. Furthermore, the degree of future protection of our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. Moreover, the degree of future protection of our proprietary rights is uncertain for product candidates that are currently in the early stages of development because we cannot predict which of these product candidates will ultimately reach the commercial market or whether the commercial versions of these product candidates will incorporate proprietary technologies.

Our patent position is highly uncertain and involves complex legal and factual questions.

Accordingly, we cannot predict the breadth of claims that may be allowed or enforced under our patents or in third-party patents. For example, we or our licensors might not have been the first to make the inventions covered by each of our pending patent applications and issued patents; we or our licensors might not have been the first to file patent applications for these inventions; others may independently develop similar or alternative technologies or duplicate any of our technologies; it is possible that none of our pending patent applications or the pending patent applications of our licensors will result in issued patents; our issued patents and issued patents of our licensors may not provide a basis for commercially viable technologies, or may not provide us with any competitive advantages, or may be challenged and invalidated by third parties; and, we may not develop additional proprietary technologies that are patentable.

As a result, our owned and licensed patents may not be valid and we may not be able to obtain and enforce patents and to maintain trade secret protection for the full commercial extent of our technology. The extent to which we are unable to do so could materially harm our business.

We or our licensors have applied for and will continue to apply for patents for certain products. Such applications may not result in the issuance of any patents, and any patents now held or that may be issued may not provide us with adequate protection from competition. Furthermore, it is possible that patents issued or licensed to us may be challenged successfully. In that event, if we have a preferred competitive position because of such patents, such preferred position would be lost. If we are unable to secure or to continue to maintain a preferred position, we could become subject to competition from the sale of generic products. Failure to receive, inability to protect, or expiration of our patents for medical use, manufacture, conjugation and labeling of Ac-225, the antibodies that we license from third parties, or subsequent related filings, would adversely affect our business and operations.

Patents issued or licensed to us may be infringed by the products or processes of others. The cost of enforcing our patent rights against infringers, if such enforcement is required, could be significant, and we do not currently have the financial resources to fund such litigation. Further, such litigation can go on for years and the time demands could interfere with our normal operations. There has been substantial litigation and other proceedings regarding patent and other intellectual property rights in the pharmaceutical industry. We may become a party to patent litigation and other proceedings. The cost to us of any patent litigation, even if resolved in our favor, could be substantial. Some of our competitors may be able to sustain the costs of such litigation more effectively than we can because of their substantially greater financial resources. Litigation may also absorb significant management time.

Unpatented trade secrets, improvements, confidential know-how and continuing technological innovation are important to our scientific and commercial success. Although we attempt to and will continue to attempt to protect our proprietary information through reliance on trade secret laws and the use of confidentiality agreements with our partners, collaborators, employees and consultants and other appropriate means, these measures may not effectively prevent disclosure of our proprietary information, and, in any event, others may develop independently, or obtain access to, the same or similar information.

Certain of our patent rights are licensed to us by third parties. If we fail to comply with the terms of these license agreements, our rights to those patents may be terminated, and we will be unable to conduct our business.

If we are found to be infringing on patents or trade secrets owned by others, we may be forced to cease or alter our product development efforts, obtain a license to continue the development or sale of our products, and/or pay damages.

Our manufacturing processes and potential products may violate proprietary rights of patents that have been or may be granted to competitors, universities or others, or the trade secrets of those persons and entities. As the pharmaceutical industry expands and more patents are issued, the risk increases that our processes and potential products may give rise to claims that they infringe the patents or trade secrets of others. These other persons could bring legal actions against us claiming damages and seeking to enjoin clinical testing, manufacturing and marketing of the affected product or process. If any of these actions are successful, in addition to any potential liability for damages, we could be required to obtain a license in order to continue to conduct clinical tests, manufacture or market the affected product or use the affected process. Required licenses may not be available on acceptable terms, if at all, and the results of litigation are uncertain. If we become involved in litigation or other proceedings, it could consume a substantial portion of our financial resources and the efforts of our personnel.

Our ability to protect and enforce our patents does not guarantee that we will secure the right to commercialize our patents.

A patent is a limited monopoly right conferred upon an inventor, and his successors in title, in return for the making and disclosing of a new and non-obvious invention. This monopoly is of limited duration but, while in force, allows the patent holder to prevent others from making and/or using its invention. While a patent gives the holder this right to exclude others, it is not a license to commercialize the invention where other permissions may be required for commercialization to occur. For example, a drug cannot be marketed without the appropriate authorization from the FDA, regardless of the existence of a patent covering the product. Further, the invention, even if patented itself, cannot be commercialized if it infringes the valid patent rights of another party.

We rely on confidentiality agreements to protect our trade secrets. If these agreements are breached by our employees or other parties, our trade secrets may become known to our competitors.

We rely on trade secrets that we seek to protect through confidentiality agreements with our employees and other parties. If these agreements are breached, our competitors may obtain and use our trade secrets to gain a competitive advantage over us. We may not have any remedies against our competitors and any remedies that may be available to us may not be adequate to protect our business or compensate us for the damaging disclosure. In addition, we may have to expend resources to protect our interests from possible infringement by others.

The use of hazardous materials, including radioactive and biological materials, in our research and development efforts imposes certain compliance costs on us and may subject us to liability for claims arising from the use or misuse of these materials.

Our research, development and manufacturing activities involves the controlled use of hazardous materials, including chemicals, radioactive and biological materials, such as radioactive isotopes. We are subject to federal, state, local and foreign environmental laws and regulations governing, among other matters, the handling, storage, use and disposal of these materials and some waste products. We cannot completely eliminate the risk of contamination or injury from these materials and we could be held liable for any damages that result, which could exceed our financial resources. We currently maintain insurance coverage for injuries resulting from the hazardous materials we use; however, future claims may exceed the amount of our coverage. Also, we do not have insurance coverage for pollution cleanup and removal. Currently the costs of complying with such federal, state, local and foreign environmental regulations are not significant, and consist primarily of waste disposal expenses. However, they could become expensive, and current or future environmental laws or regulations may impair our research, development, production and commercialization efforts.

We may undertake international operations, which will subject us to risks inherent with operations outside of the United States.

Although we do not have any foreign operations at this time, we intend to seek market clearances in foreign markets that we believe will generate significant opportunities. However, even with the cooperating of a commercialization partner, conducting drug development in foreign countries involves inherent risks, including, but not limited to difficulties in staffing, funding and managing foreign operations; unexpected changes in regulatory requirements; export restrictions; tariffs and other trade barriers; difficulties in protecting, acquiring, enforcing and litigating intellectual property rights; fluctuations in currency exchange rates; and potentially adverse tax consequences.

If we were to experience any of the difficulties listed above, or any other difficulties, any international development activities and our overall financial condition may suffer and cause us to reduce or discontinue our international development and registration efforts.

We may not be successful in hiring and retaining key employees.

Our future operations and successes depend in large part upon the continued service of key members of our senior management team whom we are highly dependent upon to manage our business. If any member of our current senior management terminates his or her employment with us, such a departure may have a material adverse effect on our business.

Our future success also depends on our ability to identify, attract, hire or engage, retain and motivate other well-qualified managerial, technical, clinical and regulatory personnel. There can be no assurance that such professionals will be available in the market, or that we will be able to retain existing professionals or meet or continue to meet their compensation requirements. Furthermore, the cost base in relation to such compensation, which may include equity compensation, may increase significantly, which could have a material adverse effect on us. Failure to establish and maintain an effective management team and work force could adversely affect our ability to operate, grow and manage our business.

We may be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, and health information privacy and security laws. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.

If we obtain FDA approval for any of our product candidates and begin commercializing those products in the United States, our operations may be directly, or indirectly through our customers, subject to various federal and state fraud and abuse laws, including, without limitation, the federal Anti-Kickback Statute, the federal False Claims Act, and physician sunshine laws and regulations. These laws may impact, among other things, our proposed sales, marketing, and education programs. In addition, we may be subject to patient privacy regulation by both the federal government and the states in which we conduct our business. The laws that may affect our ability to operate include:

the federal Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, to induce, or in return for, the purchase or recommendation of an item or service reimbursable under a federal healthcare program, such as the Medicare and Medicaid programs;

- federal civil and criminal false claims laws and civil monetary penalty laws, which prohibit, among other things, individuals or
 entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other thirdparty payors that are false or fraudulent;
- the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, which created federal criminal statutes that prohibit executing a scheme to defraud any healthcare benefit program and making false statements relating to healthcare matters:
- HIPAA, as amended by the Health Information Technology and Clinical Health Act, or HITECH, and its implementing regulations, which imposes certain requirements relating to the privacy, security, and transmission of individually identifiable health information:
- the federal physician sunshine requirements under PPACA, which require certain manufacturers of drugs, devices, biologics, and medical supplies to report annually to the U.S. Department of Health and Human Services information related to payments and other transfers of value to physicians, other healthcare providers, and teaching hospitals, and ownership and investment interests held by physicians and other healthcare providers and their immediate family members and applicable group purchasing organizations:
- state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws that may apply to items or services reimbursed by any third-party payor, including commercial insurers; state laws that require pharmaceutical companies to comply with the industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws that require drug manufacturers to report information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways, thus complicating compliance efforts.

Because of the breadth of these laws and the narrowness of the statutory exceptions and safe harbors available, it is possible that some of our business activities could be subject to challenge under one or more of such laws. In addition, recent health care reform legislation has strengthened these laws. For example, the PPACA, among other things, amends the intent requirement of the federal anti-kickback and criminal healthcare fraud statutes. A person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it to have committed a violation. Moreover, the PPACA provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the False Claims Act.

If our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from participation in government health care programs, such as Medicare and Medicaid, imprisonment, and the curtailment or restructuring of our operations, any of which could adversely affect our ability to operate our business and our results of operations.

Healthcare legislative reform measures may have a material adverse effect on our business and results of operations.

In March 2010, President Obama signed the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act (collectively, "PPACA"), which makes changes that are expected to significantly impact the pharmaceutical industries. One of the principal aims of the PPACA as currently enacted is to expand health insurance coverage to approximately 32 million Americans who are currently uninsured. The consequences of this significant coverage expansion on the sales of our products, once they are developed, are unknown and speculative at this point.

The PPACA contains a number of provisions designed to generate the revenues necessary to fund the coverage expansions among other things. This includes new fees and taxes on manufacturers of certain branded prescription drugs, an abbreviated pathway for approval of biosimilar products, a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, increases in the minimum Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program and an extension of the rebate program to individuals enrolled in Medicaid managed care organizations, and a new Medicare Part D coverage gap discount program, in which manufacturers must agree to offer 50% point-of-sale discounts off negotiated prices of applicable brand drugs to eligible beneficiaries during their coverage gap period, as a condition for the manufacturer's outpatient drugs to be covered under Medicare Part D.

The PPACA provisions on comparative clinical effectiveness research extend the initiatives of the American Recovery and Reinvestment Act of 2009, also known as the stimulus package, which included \$1.1 billion in funding to study the comparative effectiveness of health care treatments and strategies. This stimulus funding was designated for, among other things, conducting, supporting or synthesizing research that compares and evaluates the risks and benefits, clinical outcomes, effectiveness and appropriateness of products. The PPACA appropriates additional funding to comparative clinical effectiveness research. Although Congress has indicated that this funding is intended to improve the quality of health care, it remains unclear how the research will impact current Medicare coverage and reimbursement or how new information will influence other third-party payor policies.

In addition, other legislative changes have been proposed and adopted since the PPACA was enacted. On August 2, 2011, the President Obama signed into law the Budget Control Act of 2011, which, among other things, creates the Joint Select Committee on Deficit Reduction to recommend proposals in spending reductions to Congress. The Joint Select Committee did not achieve a targeted deficit reduction of at least \$1.2 trillion for the years 2013 through 2021, which threatened to trigger the legislation's automatic reduction to several government programs. This includes aggregate reductions of Medicare payments to providers of 2% per fiscal year, which went into effect in April 2013 and will stay in effect through 2024 unless additional Congressional action is taken. On January 2, 2013, Congress passed and President Obama signed the American Taxpayer Relief Act of 2012 which, among other things, further reduced Medicare payments to certain providers, including physicians, hospitals and cancer treatment centers. We expect that the PPACA, as well as other federal or state health care reform measures that may be adopted in the future, could have a material adverse effect on our industry generally and our ability to successfully commercialize our products or could limit or eliminate our spending on certain development projects. The taxes imposed by the PPACA and the expansion in the government's role in the U.S. healthcare industry may result in decreased profits to us, lower reimbursement by payors for our products, and/or reduced medical procedure volumes, all of which may adversely affect our business, financial condition and results of operations.

Managing our growth as we expand operations may strain our resources.

We expect to need to grow rapidly in order to support additional, larger, and potentially international, pivotal clinical trials of our product candidates, which will place a significant strain on our financial, managerial and operational resources. In order to achieve and manage growth effectively, we must continue to improve and expand our operational and financial management capabilities. Moreover, we will need to increase staffing and to train, motivate and manage our employees. All of these activities will increase our expenses and may require us to raise additional capital sooner than expected. Failure to manage growth effectively could materially harm our business, financial condition or results of operations.

We may expand our business through the acquisition of rights to new product candidates that could disrupt our business, harm our financial condition and may also dilute current stockholders' ownership interests in our company.

Our business strategy includes expanding our products and capabilities, and we may seek acquisitions of product candidates, antibodies or technologies to do so. Acquisitions involve numerous risks, including substantial cash expenditures; potentially dilutive issuance of equity securities; incurrence of debt and contingent liabilities, some of which may be difficult or impossible to identify at the time of acquisition; difficulties in assimilating acquired technologies or the operations of the acquired companies; diverting our management's attention away from other business concerns; risks of entering markets in which we have limited or no direct experience; and the potential loss of our key employees or key employees of the acquired companies.

We can make no assurances that any acquisition will result in short-term or long-term benefits to us. We may incorrectly judge the value or worth of an acquired product, company or business. In addition, our future success would depend in part on our ability to manage the rapid growth associated with some of these acquisitions. We cannot assure that we will be able to make the combination of our business with that of acquired products, businesses or companies work or be successful. Furthermore, the development or expansion of our business or any acquired products, business or companies may require a substantial capital investment by us. We may not have these necessary funds or they might not be available to us on acceptable terms or at all. We may also seek to raise funds by selling shares of our preferred or common stock, which could dilute each current stockholder's ownership interest in the Company.

Risks Related to Ownership of Our Common Stock

Because we became public by means of a "reverse merger," we may not be able to attract the attention of major brokerage firms.

Additional risks may exist since we became public through a "reverse merger." Securities analysts of major brokerage firms may not provide coverage of us since there is little incentive to brokerage firms to recommend the purchase of our common stock. We cannot assure you that brokerage firms will want to conduct any secondary offerings on behalf of our company in the future.

The sale of securities by us in any equity or debt financing could result in dilution to our existing stockholders and have a material adverse effect on our earnings.

We believe we need up to \$20.0 million in cash to finance research and development and to cover our ongoing working capital needs through 2016. We have financed our operations primarily through sales of stock and the issuance of convertible promissory notes. It is likely that during the next twelve months we will seek to raise additional capital through the sales of stock and/or issuance of convertible debentures in order to expand our level of operations to continue our research and development efforts.

Any sale of common stock by us in a future private placement offering could result in dilution to the existing stockholders as a direct result of our issuance of additional shares of our capital stock. In addition, our business strategy may include expansion through internal growth or by establishing strategic relationships with targeted customers and vendor. In order to do so, or to finance the cost of our other activities, we may issue additional equity securities that could dilute our stockholders' stock ownership. We may also assume additional debt and incur impairment losses related to goodwill and other tangible assets if we acquire another company and this could negatively impact our earnings and results of operations.

Our common stock has been considered a Penny Stock.

During the fiscal year 2013 and through the first quarter of 2016 our common stock has or had been a penny stock, therefore, when our stock is considered a penny stock trading in our securities may be subject to penny stock considerations. Broker-dealer practices in connection with transactions in "penny stocks" are regulated by certain penny stock rules adopted by the SEC.

Penny stocks generally are equity securities with a price of less than \$5.00 (other than securities registered on certain national securities exchanges or quoted on the NYSE MKT system). Penny stock rules require a broker-dealer, prior to a transaction in a penny stock not otherwise exempt from the rules, to deliver a standardized risk disclosure document that provides information about penny stocks and the risks in the penny stock market. The broker-dealer also must provide the customer with current bid and offer quotations for the penny stock, the compensation of the broker-dealer and its salesperson in the transaction, and monthly account statements showing the market value of each penny stock held in the customer's account. The broker-dealer must also make a special written determination that the penny stock is a suitable investment for the purchaser and receive the purchaser's written agreement to the transaction. These requirements may have the effect of reducing the level of trading activity, if any, in the secondary market for a security that becomes subject to the penny stock rules. The additional burdens imposed upon broker-dealers by such requirements may discourage broker-dealers from effecting transactions in our securities, which could severely limit their market price and liquidity of our securities. These requirements may restrict the ability of broker-dealers to sell our common stock and may affect your ability to resell our common stock.

Our common stock is extremely thinly traded, so you may be unable to sell at or near asking prices or at all if you need to sell your shares to raise money or otherwise desire to liquidate your shares.

Trading volume in our common stock is limited. This may inhibit investment by major institutional investment funds, including mutual funds, as well as individual investors. A higher volume trading market may never develop or be maintained. Active trading markets generally result in lower price volatility and more efficient execution of buy and sell orders. Absence of an active trading market reduces the liquidity of the shares traded there-in.

Our Common Stock is subject to price volatility unrelated to our operations.

The trading volume of our common stock has been and may continue to be extremely limited and sporadic. As a result of such trading activity, the quoted price for our common stock on the NYSE MKT may not necessarily be a reliable indicator of its fair market value.

We expect the market price of our Common Stock to fluctuate substantially due to a variety of factors, including market perception of our ability to achieve our planned growth, quarterly operating results of other companies in the same industry, trading volume in our common stock, changes in general conditions in the economy and the financial markets or other developments affecting the Company's competitors or the Company itself. This volatility has had a significant effect on the market price of securities issued by many companies for reasons unrelated to their operating performance and could have the same effect on our common stock.

Because we do not intend to pay dividends, stockholders will benefit from an investment in our Common Stock only if it appreciates in value.

We have never declared or paid any cash dividends on our Preferred Stock or Common Stock. For the foreseeable future, it is expected that earnings, if any, generated from our operations will be used to finance the growth of our business, and that no dividends will be paid to holders of our Preferred Stock or Common Stock. As a result, the success of an investment in our Preferred Stock or Common Stock will depend upon any future appreciation in its value. There is no guarantee that our Preferred Stock or Common Stock will appreciate in value.

Certain provisions of our Certificate of Incorporation and Bylaws and Delaware law make it more difficult for a third party to acquire us and make a takeover more difficult to complete, even if such a transaction were in the stockholders' interest.

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

- provide that the authorized number of directors may be changed by resolution of the board of directors;
- provide that all vacancies, including newly-created directorships, may, except as otherwise required by law, be filled by the affirmative vote of a majority of directors then in office, even if less than a quorum;
- divide the board of directors into three classes;
- provide that stockholders seeking to present proposals before a meeting of stockholders or to nominate candidates for election as directors at a meeting of stockholders must provide notice in writing in a timely manner, and meet specific requirements as to the form and content of a stockholder's notice;

In addition, we are governed by Section 203 of the Delaware General Corporation Law. In general, Section 203 prohibits a public 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. A "business combination" includes mergers, asset sales or other transactions resulting in a financial benefit to the stockholder. An "interested stockholder" is a person who, together with affiliates and associates, owns, or within three years, did own, 15% or more of the corporation's outstanding voting stock. These provisions may have the effect of delaying, deferring or preventing a change in our control..

Compliance with the reporting requirements of federal securities laws can be expensive.

We are subject to the information and reporting requirements of the Exchange Act and other federal securities laws, and the compliance obligations of the Sarbanes-Oxley Act. The costs of preparing and filing annual and quarterly reports and other information with the SEC and furnishing audited reports to stockholders are substantial. In addition, we will incur substantial expenses in connection with the preparation of registration statements and related documents with respect to the registration of resale of the Common Stock.

Applicable regulatory requirements, including those contained in and issued under the Sarbanes-Oxley Act, may make it difficult for us to retain or attract qualified officers and directors, which could adversely affect the management of its business and its ability to obtain or retain listing of our Common Stock.

We may be unable to attract and retain those qualified officers, directors and members of board committees required to provide for effective management because of the rules and regulations that govern publicly held companies, including, but not limited to, certifications required by principal executive officers. The enactment of the Sarbanes-Oxley Act has resulted in the issuance of a series of related rules and regulations and the strengthening of existing rules and regulations by the SEC, as well as the adoption of new and more stringent rules by the stock exchanges. The perceived increased personal risk associated with these changes may deter qualified individuals from accepting roles as directors and executive officers.

Further, some of these changes heighten the requirements for board or committee membership, particularly with respect to an individual's independence from the corporation and level of experience in finance and accounting matters. We may have difficulty attracting and retaining directors with the requisite qualifications. If we are unable to attract and retain qualified officers and directors, the management of our business and our ability to obtain or retain listing of our shares of Common Stock on any stock exchange (assuming we elect to seek and are successful in obtaining such listing) could be adversely affected.

If we fail to maintain an effective system of internal controls, we may not be able to accurately report our financial results or detect fraud. Investors could lose confidence in our financial reporting and this may decrease the trading price of our Common Stock.

We must maintain effective internal controls to provide reliable financial reports and detect fraud. As disclosed in this report, we have previously identified material weaknesses in our internal control over financial reporting because we did not have sufficient written policies and procedures for accounting and financial reporting and we did not have effective controls over period end financial disclosures and reporting processes. During 2014, our management remediated these previously identified material weaknesses. In future periods, we may identify additional deficiencies in our system of internal controls over financial reporting that may require remediation. There can be no assurances that any such future deficiencies identified may not be material weaknesses that would be required to be reported in future periods. Failure to maintain an effective system of internal controls could harm our operating results and cause investors to lose confidence in our reported financial information. Any such loss of confidence would have a negative effect on the trading price of our Common Stock.

The price of our common stock may become volatile, which could lead to losses by investors and costly securities litigation.

The trading price of our Common Stock may be highly volatile and could fluctuate in response to factors such as:

- actual or anticipated variations in our operating results;
- announcements of developments by us or our competitors;
- the timing of IND and/or BLA approval, the completion and/or results of our clinical trials;
- regulatory actions regarding our products;
- announcements by us or our competitors of significant acquisitions, strategic partnerships, joint ventures or capital commitments;
- adoption of new accounting standards affecting our industry;

- additions or departures of key personnel;
- introduction of new products by us or our competitors;
- sales of our Common Stock or other securities in the open market; and
- other events or factors, many of which are beyond our control.

The stock market is subject to significant price and volume fluctuations. In the past, following periods of volatility in the market price of a company's securities, securities class action litigation has often been initiated against such a company. Litigation initiated against us, whether or not successful, could result in substantial costs and diversion of our management's attention and Company resources, which could harm our business and financial condition.

ITEM 1B. UNRESOLVED STAFF COMMENTS.

None

ITEM 2. PROPERTIES.

The Company does not own any property. On March 10, 2016 and effective as of Janaury 1, 2016, the Company entered into an Office Space License Agreement (the "License") with Relmada Therapeutics, Inc. for office space located at 275 Madison Avenue, 7th Floor, New York, NY 10016. This new office space will house the Company's corporate headquarters. The term of the License is three years from the effective date, with an automatic renewal provision. The cost of the License is approximately \$16,620 per month (which includes approximately \$3,492 per month for the Company's share for capital improvements to the premises which payments are spread out over the remaining term of the base lease or 81 months), subject to customary escalations and adjustments. The Company also entered into a sublease agreement for office space located at 379 Thornall Street, 6th Floor, Edison, NJ. This agreement expires on September 30, 2016 and the rent is approximately \$10,000 per month.

ITEM 3. LEGAL PROCEEDINGS.

From time to time, we may become involved in various lawsuits and legal proceedings, which arise in the ordinary course of business. Litigation is subject to inherent uncertainties, and an adverse result in these or other matters may arise from time to time that may harm business. We are currently not aware of any such legal proceedings or claims that will have, individually or in the aggregate, a material adverse effect on our business, financial condition or operating results.

ITEM 4. MINE SAFETY DISCLOSURES.

Not Applicable.

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDERS MATTERS, AND ISSUER PURCHASE OF EQUITY SECURITIES.

Market Information

Our common stock is listed for quotation on the NYSE MKT under the symbol "ATNM". The following table sets forth, for the quarters indicated, the high and low sale per share sales prices of our common stock as reported by the NYSE MKT or www.otcbb.com, as applicable. On March 26, 2014 our common stock commenced trading on the NYSE MKT. Prior to March 26, 2014, our common stock is listed on the OTCQB, under the symbol "ATNM".

Quarterly Common Stock Price Ranges

Fiscal Year 2015, Quarter Ended:	High	Low
March 31, 2015	\$ 6.07	2.45
June 30, 2015	\$ 3.94	2.38
September 30, 2015	\$ 2.69	1.68
December 31, 2015	\$ 3.23	1.71
Fiscal Year 2014, Quarter Ended:	High	Low
March 31, 2014	\$ 12.49	\$ 4.51
June 30, 2014	\$ 15.00	\$ 6.74
September 30, 2014	\$ 7.77	\$ 5.93
December 31, 2014	\$ 8.12	\$ 5.05
		_
Fiscal Year 2013, Quarter Ended:	 High	Low
March 31, 2013	\$ 7.75	\$ 1.50
June 30, 2013	\$ 6.25	\$ 3.00
September 30, 2013	\$ 6.40	\$ 3.10
December 31, 2013	\$ 7.91	\$ 4.30

Holders

As of March 10, 2016 there were 44,391,097 shares of common stock issued and outstanding, which were held by 119 holders of record. There are no shares of preferred stock outstanding. On March 09, 2016, the closing price of our common stock as reported on the NYSE MKT as \$1.98 per share.

Of the 44,391,097 shares of common stock issued and outstanding, 645,735 of such shares are restricted shares under the Securities Act. None of these restricted shares are eligible for resale absent registration or an exemption from registration under the Securities Act. As of the date hereof, until the provisions of Rule 144 are complied with, the exemption from registration provided by Rule 144 under the Securities Act is not available for these shares pursuant to Rule 144(i).

Registration Rights

On December 21, 2015, Actinium entered into an Investor Rights Agreement (the "Investor Rights Agreement") with Memorial Sloan Cancer Center ("MSKCC"). Under the terms of the Investor Rights Agreement, MSKCC has agreed to forebear from transferring or otherwise disposing of its approximately 5.7 million Actinium shares (other than pursuant to a piggyback registration as described below) until the start of the Actimab-A Phase 2 clinical study (but, in no event until later than March 31, 2016). Thereafter MSKCC shall be permitted to sell its shares subject to a weekly volume limitation of 150,000 shares (which limit may be increased to up to 250,000 shares per week to the extent any prior weekly allotments were not fully used) and applicable law so long as MSKCC maintains at least 25% of its current shareholding in Actinium through December 31, 2016. Actinium has granted MSKCC piggyback registration rights that would be triggered in the event Actinium were to engage in a public registered offering of its shares for its own account where other shareholders are participating as selling shareholders or where such public registered offering is for the account of other selling shareholders. In addition, following December 31, 2016, Actinium has granted MSKCC unlimited Form S-3 registration rights with respect to its shares.

Dividends

We have never declared or paid a cash dividend. Any future decisions regarding dividends are made by our Board of Directors. We currently intend to retain and use any future earnings for the development and expansion of our business and do not anticipate paying any cash dividends in the foreseeable future. Our Board of Directors has complete discretion on whether to pay dividends. Even if our Board of Directors decides to pay dividends, the form, frequency and amount will depend upon our future operations and earnings, capital requirements and surplus, general financial condition, contractual restrictions and other factors that the Board of Directors may deem relevant.

Securities Authorized for Issuance under Equity Compensation Plans

The Company currently has two equity compensation plans defined as follows:

In December 2013, our shareholders approved the Company's 2013 Stock Plan. The expiration date of the plan is September 9, 2023 and the total number of underlying shares of the Company's common stock available for grant to employees, directors and consultants of the Company under the plan is currently 10,750,000 shares.

In December 2013, our shareholders approved the Company's 2013 Equity Incentive Plan. The expiration date of the plan is September 9, 2023 and the total number of shares of our common stock available for grant to employees, directors and consultants of us under the plan is 1,000,000 shares.

The following table indicates shares of common stock authorized for issuance under our equity incentive plans as of December 31, 2015:

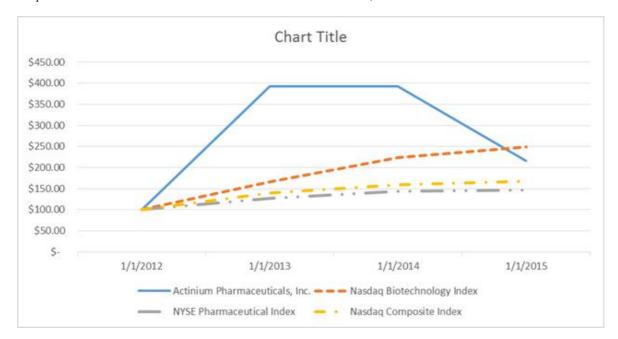
	Number of securities to be issued upon exercise of outstanding options, warrants	Weighted- average exercise price of outstanding options, warrants	Number of securities remaining available for future
Plan category	and rights	and rights	issuance
Equity compensation plans approved by security holders	4,256,583	\$ 4.58	7,493,417
Equity compensation plans not approved by security holders	_	_	_
Total	4,256,583	\$ 4.58	7,493,417

Performance Graph

The following graph shows a comparison of the five year total cumulative returns of an investment of \$100 in cash on December 27, 2012 in (i) our common stock (ii) the Nasdaq Biotechnology Index (iii) the NYSE Pharmaceutical Index and (iv) the Nasdaq Composite Index. All values assume reinvestment of the full amount of all dividends (to date, we have not declared any dividends).

This stock performance graph shall not be deemed "filed" with the SEC or subject to Section 18 of the Securities Exchange Act, nor shall it be deemed incorporated by reference in any of our filings under the Securities Act of 1933, as amended (the "Securities Act").

Comparison of cumulative total return on investment since December 27, 2012:



	12/2	12/27/2012		12/31/2012		12/31/2013		12/31/2014		/31/2015
Actinium Pharmaceuticals, Inc.	\$	100.00	\$	100.00	\$	392.67	\$	392.67	\$	215.33
Nasdaq Biotechnology Index		100.00		100.56		166.53		223.31	\$	248.82
NYSE Pharmaceutical Index		100.00		100.11		126.80		144.33	\$	146.67
Nasdaq Composite Index		100.00		101.13		139.88		158.61	\$	167.70

ITEM 6. SELECTED FINANCIAL DATA.

The following selected financial data should be read in conjunction with our consolidated financial statements and related notes and the "Management's Discussion and Analysis of Financial Condition and Results of Operations" and other financial data included elsewhere in this Form 10-K. The selected statements of operations and the selected balance sheet data are derived from our consolidated audited financial statements.

	Year Ended December 31,									
		2015		2014		2013		2012		2011
Statements of Operations Data:										
Revenues	\$	-	\$	-	\$	-	\$	-	\$	-
Loss from operations		(24,829,764)		(22,480,544)	\$		\$	(7,947,298)		(3,283,667)
Net loss	\$	(21,025,314)	\$	(24,687,509)	\$	(10,773,792)	\$	(8,361,205)	\$	(3,444,795)
Net loss per common share:										
Basic and diluted	\$	(0.55)	\$	(0.90)	\$	(0.47)	\$	(7.58)	\$	(4.30)
Weighted-average common shares outstanding:										
Basic and diluted		38,158,480		27,363,748		22,752,752		1,103,521		801,799
				As	of	December 31	,			
		2015		2014		2013		2012		2011
Balance Sheet Data:										
Cash and cash equivalents	\$	25,643,273	\$	6,706,802	\$	5,533,366	\$	5,618,669	\$	5,703,798
Total assets	\$	26,587,581	\$	7,569,086	\$	5,765,675	\$	5,788,822	\$	6,200,497
Total liabilities	\$	4,613,533	\$	9,491,616	\$	7,325,220	\$	4,643,187	\$	5,208,487
Stockholders' equity (deficit)	•	21,974,048	\$	(1,922,530)	\$	(1,559,545)	\$	1,145,635	\$	992,010
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ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATION.

The information and financial data discussed below is derived from the audited consolidated financial statements of Actinium Pharmaceuticals, Inc. for its fiscal years ended December 31, 2015, 2014 and 2013. The consolidated financial statements of Actinium Pharmaceuticals, Inc. were prepared and presented in accordance with generally accepted accounting principles in the United States. The information and financial data discussed below is only a summary and should be read in conjunction with the historical financial statements and related notes of Actinium Pharmaceuticals, Inc. contained elsewhere in this Report. The financial statements contained elsewhere in this Report fully represent Actinium Pharmaceuticals, Inc.'s financial condition and operations; however, they are not indicative of the Company's future performance. See "Cautionary Note Regarding Forward Looking Statements" above for a discussion of forward-looking statements and the significance of such statements in the context of this Report.

Overview

Actinium is a biotechnology company committed to developing breakthrough therapies for life threatening diseases using its alpha particle immunotherapy (APIT) platform and other related and similar technologies. Actinium, together with its wholly owned subsidiary, MedActinium, Inc. (MAI), (hereinafter referred to collectively as "Actinium") has initiated collaborative efforts with large institutions to establish the proof of concept of alpha particle immunotherapy and has supported one Phase 1/2 clinical trial and one Phase 1 clinical trial at Memorial Sloan-Kettering Cancer Center ("MSKCC") under an MSKCC Physician IND Application. In 2012, Actinium launched a multicenter corporate sponsored trial in acute myeloid leukemia (AML) patients. Actinium's objective, through research and development, is to produce reliable cancer fighting products which utilize monoclonal antibodies linked with alpha particle emitters or other appropriate payloads to provide very potent targeted therapies. The initial clinical trials of Actinium's compounds have been with patients having acute myeloid leukemia and it is believed that Actinium's APIT platform will have wider applicability for different types of cancer where suitable monoclonal antibodies can be found.

We were incorporated under the laws of the State of Nevada on October 6, 1997. We were a shell entity that was in the market for a merger with an appropriate operating company.

On December 28, 2012, we entered into a transaction (the "Share Exchange"), pursuant to which the Company acquired 21% of the issued and outstanding equity securities of Actinium Pharmaceuticals, Inc. ("Actinium"), in exchange for the issuance of 4,333,489 shares of common stock, par value \$0.001 per share, of the Company (the "Common Stock"), which were issued to the shareholders of Actinium. As a result of the Share Exchange, the former shareholders of Actinium became the controlling shareholders of the Company. The Share Exchange was accounted for as a reverse takeover/recapitalization effected by a share exchange, wherein Actinium is considered the acquirer for accounting and financial reporting purposes. As a result of the Share Exchange, the Company assumed the business and operations of Actinium.

On March 11, 2013, Actinium Corporation continued its Share Exchange with us, whereby we acquired an additional 36% of the issued and outstanding capital stock of Actinium Corporation from the Actinium Corporation Shareholders in exchange for the issuance of 7,756,840 shares of Common Stock of us to the Actinium Shareholders.

On April 11, 2013, the change of domicile from the State of Nevada to the State of Delaware and the change of Cactus Ventures, Inc.'s name from Cactus Ventures, Inc. to Actinium Pharmaceuticals, Inc. became effective in accordance with Articles of Merger filed with the State of Nevada and a Certificate of Merger filed with the State of Delaware. In connection with the name change we also changed (i) the name of our subsidiary Actinium Pharmaceuticals, Inc. to Actinium Corporation, (ii) our par value to \$0.001 per share, and (iii) the number of authorized shares of preferred stock to 10 million shares. Effective April 18, 2013 our new trading symbol became ATNM. On September 25, 2013, we merged with our subsidiary, Actinium Corporation, and we were the surviving entity of the merger.

On August 22, 2013, Actinium Corporation continued its Share Exchange with us, whereby we acquired an additional 38.2% of the issued and outstanding capital stock of Actinium Corporation from the Actinium Corporation Shareholders in exchange for the issuance of 6,383,475 shares of Common Stock of us to the Actinium Shareholders. On September 25, 2013 in accordance with a Certificate of Ownership Merging Actinium Corporation into us, we merged with Actinium Corporation, and Actinium Corporation ceased to exist. As a result of the merger, Actinium Corporation stock owned by us has been cancelled and each share of Actinium Corporation not owned by us was exchanged for 0.333 shares of our common stock.

On March 26, 2014, we began trading our common stock on the NYSE MKT market.

Plan of Operation

We develop drugs for the treatment of cancer with the intent to cure or significantly improve survival of the affected patients. None of our drugs have been approved for sale in the United States or elsewhere. We have no commercial operations in sales or marketing of our products. All our product candidates are under development. In order to market and sell our products we must conduct clinical trials on patients and obtain regulatory approvals from appropriate regulatory agencies like the Food and Drug Administration (FDA) in the United States and similar agencies elsewhere in the world.

Our products under development are monoclonal antibodies labeled with radioisotopes. We have one program with an antibody labeled with a beta emitter and several programs based on a proprietary patent protected platform technology called APIT. Our APIT technology is based on attaching actinium 225 (Ac-225) or bismuth 213 (Bi-213) alpha emitting radioisotopes to monoclonal antibodies. Alpha emitting radioisotopes are unstable chemical elements that decay by releasing alpha particles. Alpha particles can kill any cell in the immediate proximity of where they are released. Monoclonal antibodies are genetically engineered proteins that specifically target certain cells, including cancer cells. It is crucial for the success of our drug candidates to contain monoclonal antibodies that can successfully seek cancer cells and can kill them with the attached isotope while not harming nearby normal cells. We do not have technology and operational capabilities to develop and manufacture such monoclonal antibodies and we therefore rely on collaboration with third parties to gain access to such monoclonal antibodies. We have secured rights to two monoclonal antibodies, HuM195 (Lintuzumab), in 2003 through a collaborative licensing agreement with AbbVie Biotherapeutics Corp and BC8 in 2012 with the Fred Hutchinson Cancer Research Center ("FHCRC"). We expect to negotiate collaborative agreements with other potential partners that would provide us with access to additional monoclonal antibodies. Establishing and maintaining such collaborative agreements is a key to our success as a company.

Under our own sponsorship as well as activity at FHCRC, we have four product candidates in active clinical trials: Actimab-A (HuM195-Ac-225), Iomab-B (BC8-I-131), BC8-Y-90 and BC8-SA. At this time, the Company is actively pursuing development of Actimab-A and Iomab-B while BC8-Y-90 and BC8-SA are in physician sponsored clinical phase 1 trials at the FHCRC. Actimab-A is a combination of the monoclonal antibody we have in-licensed, Lintuzumab (HuM195), and the alpha emitting isotope actinium 225. Actimab-A has shown promising results throughout preclinical development and an ongoing clinical trial started in 2006 in AML in the elderly. We have expanded the number of patients and number of clinical centers by commencing a new AML clinical trial which we launched in 2012. This trial targets newly diagnosed AML patients over the age of 60. In order to conduct the trial we are engaged in funding, monitoring and quality assurance and control of the Lintuzumab antibody; procurement of actinium 225 isotope; funding, monitoring and quality assurance and control of the drug candidate Actimab-A manufacturing and organizing and monitoring clinical trials. We estimate that the direct costs to completion of both parts of the ongoing Phase 1/2 trial will be approximately \$7 million. Iomab-B is a combination of the in-licensed monoclonal antibody BC8 and the beta emitting radioisotope iodine 131. This construct has been extensively tested in Phase 1 and Phase 2 clinical trials in approximately 250 patients with different blood cancer indications who were in need of HSCT. Iomab-B is used to condition the bone marrow of these patients by destroying blood cancer cells in their bone marrow and elsewhere thus allowing for a subsequent transplant containing healthy donor bone marrow stem cells. We have decided to develop this drug candidate by initially focusing on the patients over 50 with active acute myeloid leukemia in relapse and/or refractory to existing treatments. On December 17, 2015, the FDA cleared our IND filing for Iomab-B, and that we will proceed with the pivotal, Phase 3 clinical trial. We anticipate that the Phase 3, controlled, randomized, pivotal trial will begin enrolling patients in the first half of 2016. We estimate the direct costs of such a trial to completion anticipated in 2018 will be approximately \$25 million.

We have primarily management position employees and consultants who direct, organize and monitor the activities described above through contractors. Much of the in-vivo laboratory and clinical work contracted for by the Company was conducted at MSKCC in New York. We also made clinical trial arrangements with other well-known cancer centers. Our Actimab-A drug candidate and its components are contract manufactured and maintained under our supervision by specialized contract manufacturers and suppliers in the United States, including IsoTex Diagnostics, Oak Ridge National Laboratory, Pacific GMP, Fischer Bioservices, BioReliance and others.

We have never generated revenue. Currently we do not have a recurring source of revenues to cover our operating costs. As of December 31, 2015 and 2014, our accumulated deficit was \$112.2 million and \$91.2 million, respectively. Our net loss was \$21.0 million, \$24.7 million, and \$10.8 million for the years ended December 31, 2015, 2014, and 2013, respectively. As of December 31, 2015, our cash balance was \$25.6 million. We believe that we have enough cash on hand to fund our operations through the next 12 months.

Opportunities, Challenges and Risks

The market for drugs for cancer treatment is a large market in need of novel products, in which successful products can command multibillion dollars in annual sales. A number of large pharmaceutical and biotechnology companies regularly acquire products in development, with preference given to products in Phase 2 or later clinical trials. These transactions are typically structured to include an upfront payment that ranges from several million dollars to tens of million dollars or more and additional milestone payments tied to regulatory submissions and approvals and sales milestones. Our goal is to develop our product candidates through Phase 2 clinical trials and enter into partnership agreements with one or more large pharmaceutical and/or biotechnology companies.

We believe our future success will be heavily dependent upon our ability to successfully conduct clinical trials and preclinical development of our drug candidates. This will in turn depend on our ability to continue our collaboration with MSKCC and our Clinical Advisory Board members. In addition, we plan to continue and expand other research and clinical trial collaborations. Moreover, we will have to maintain sufficient supply of actinium 225 and successfully maintain and if and when needed replenish or obtain our reserves of monoclonal antibodies. We will have to maintain and improve manufacturing procedures we have developed for production of our drug candidates from the components that include the iodine 131 and actinium 225 isotopes, monoclonal antibodies and other materials. It is possible that despite our best efforts our clinical trials results may not meet regulatory requirements for approval. If our efforts are successful, we will be able to partner our development stage products on commercially favorable terms only if they enjoy appropriate patent coverage and/or considerable know-how and other protection that ensures market exclusivity. For that reason we intend to continue our efforts to maintain existing and generate new intellectual property. Intellectual property is a key factor in the success of our business as well as market exclusivity.

To achieve our goal we intend to continue to invest in research and development at high and constantly increasing rates thus incurring further losses until one or more of our products are sufficiently developed to partner them with a large pharmaceutical and/or biotechnology company.

Results of Operations - Year Ended December 31, 2015 Compared to the Year Ended December 31, 2014

The following table sets forth, for the periods indicated, data derived from our statements of operations:

	For the yea December	
	2015	2014
Revenues	\$ - :	\$ -
Operating expenses:		
Research and development, net of reimbursements	13,311,739	12,267,313
General and administrative	11,464,560	10,175,323
Depreciation and amortization	53,465	37,908
Total operating expenses	24,829,764	22,480,544
Other income (expense)		
Interest expense	(7,868)	(866)
Gain (loss) from change in fair value of derivative liabilities	3,812,318	(2,206,099)
Total other income (expense)	3,804,450	(2,206,965)
Net loss	<u>\$ (21,025,314)</u>	\$ (24,687,509)
42		

Revenues

We recorded no commercial revenues for the years ended December 31, 2015 and 2014.

Research and Development Expense

Research and development expenses, net of reimbursements, increased by approximately \$1.0 million to approximately \$13.3 million for the year ended December 31, 2015 compared to approximately \$12.3 million for the year ended December 31, 2014. The increase was primarily attributable to increase in compensation cost of approximately \$1.3 million as a result of an increase in headcount and also an increase in stock-based compensation related to research and development personnel. In 2015 the Company decreased its ongoing Actimab-A clinical costs of approximately \$0.2 million.

We expect to incur increased research and development costs in the future in connection with the planned Phase 3 trial.

General and Administrative Expenses

Overall, total general and administrative expenses increased by approximately \$1.3 million to \$11.5 million for the year ended December 31, 2015 compared to approximately \$10.2 million for the year ended December 31, 2014. The increase was largely attributable to increase of approximately \$0.9 million for financial consulting services, increases in stock-based compensation costs and salaries and benefits of approximately \$0.2 million, and approximate increase of \$0.2 million in Directors and Offices insurance and payments.

We expect to incur increased general and administrative costs in the future in connection with the planned Phase 3 trial.

Other Income (Expense)

Other income (expense) was \$3.8 million and (\$2.2 million) for the years ended December 31, 2015 and 2014, respectively. The year over year change is mainly attributable to the fluctuation of the Company's stock price and its impact on the derivative value of certain warrants the Company issued in connection with the December 2012 financing.

Net Loss

Net loss decreased by approximately \$3.7 million to approximately \$21.0 million for the year ended December 31, 2015 compared to approximately \$24.7 million for the year ended December 31, 2014. The decrease was primarily due to a gain on the change in fair value of the Company's derivative warrant liability which was partially offset by additional costs incurred by the Company in research and development expenses, non-cash stock-based compensation costs and professional fees.

Results of Operations - Year Ended December 31, 2014 Compared to the Year Ended December 31, 2013

The following table sets forth, for the periods indicated, data derived from our statements of operations:

	For the ye Decem	
	2014	2013
Revenues	\$ -	\$ -
Operating expenses:		
Research and development, net of reimbursements	12,267,313	3,109,331
General and administrative	10,175,323	3,476,879
Depreciation and amortization	37,908	1,560
Loss on disposition of equipment	-	4,122
Total operating expenses	22,480,544	6,591,892
Other expense:		
Interest expense	(866)	(2,508)
Loss change in fair value of derivative liabilities	(2,206,099)	(4,179,392)
Total other expense	(2,206,965)	(4,181,900)
Net loss	\$ (24,687,509)	\$ (10,773,792)

Revenues

We recorded no commercial revenues for the years ended December 31, 2014 and 2013.

Research and Development Expense

Research and development expenses, net of reimbursements, increased by approximately \$9.2 million to approximately \$12.3 million for the year ended December 31, 2014 compared to approximately \$3.1 million for the year ended December 31, 2013. The increase was primarily due to the increased manufacturing costs of Iomab-B totaling approximately \$5.4 million and an increase in the ongoing Actimab-A clinical costs of approximately \$1.5 million.

The increase was also attributable to the higher compensation cost of approximately \$1.5 million as a result of an increase in headcount and an increase in stock-based compensation related to research and development personnel.

General and Administrative Expenses

Overall, total general and administrative expenses increased by approximately \$6.7 million to \$10.2 million for the year ended December 31, 2014 compared to approximately \$3.5 million for the year ended December 31, 2013. The increase was largely attributable to an increase in stock-based compensation costs and salaries and benefits of approximately \$4.9 million and \$0.9 million, respectively.

Other Expense

Other expense was \$2.2 million and \$4.2 million for the years ended December 31, 2014 and 2013, respectively. The year over year change is mainly attributable to the fluctuation of the Company's stock price and its impact on the derivative value of certain warrants the Company issued in connection with the December 2012 financing.

Net Loss

Net loss increased by approximately \$13.9 million to approximately \$24.7 million for the year ended December 31, 2014 compared to approximately \$10.8 million for the year ended December 31, 2013. The increase was primarily due to additional costs incurred by the Company in research and development expenses, non-cash stock-based compensation costs and professional fees which was partially offset by a decrease in the loss from change in fair value of the Company's derivative warrant liability.

Liquidity and Capital Resources

We have financed our operations primarily through sales of the Company's stock.

We did not have any cash or cash equivalents held in financial institutions located outside of the United States as of December 31, 2015 and 2014. We do not anticipate this practice will change in the future.

The following tables sets forth selected cash flow information for the periods indicated:

	F0	For the year ended December 31,					
	2015	2014	2013				
Cash used in operating activities	* * * * * * * * * * * * * * * * * * * *	\$ (14,348,754) \$					
Cash used in investing activities Cash provided by financing activities	(47,788) 37,528,027	(186,421) 15,708,611	(16,592) 6,223,705				
Net change in cash	\$ 18,936,471	\$ 1,173,436	(85,303)				

For the year ended December 31, 2015 and 2014

Net cash used in operating activities was approximately \$18.5 million for the year ended December 31, 2015 compared to approximately \$14.3 million used in operations for the same period in 2014. Cash used in operations increased due to the increase in spending related to the preparations for and eventual launch and conduct of a multicenter clinical trial and an increase in spending related to professional fees combined with an increase in payroll-related expenses.

Net cash used in investing activities was approximately \$48,000 for the year ended December 31, 2015 compared to approximately \$0.2 million used in investing activities for the same period in 2014. Cash used in investing activities decreased due to less purchase of computers and lab equipment during 2015 compared to the prior year.

Net cash provided by financing activities were approximately \$37.5 million and approximately \$15.7 million for each of the years ended December 31, 2015 and 2014, respectively. During the year ended December 31, 2015, the Company issued common stock and received net proceeds of approximately \$37.6 million and approximately \$0.2 million from the exercise of warrants and options. During the year ended December 31, 2014, the Company issued common stock and received net proceeds of approximately \$15.4 million and approximately \$0.4 million from the exercise of warrants and options. These increases were offset by payments on notes payable of \$0.3 million and \$0.2 million for the year ended December 31, 2015 and 2014, respectively.

For the year ended December 31, 2014 and 2013

Net cash used in operating activities was approximately \$14.3 million for the year ended December 31, 2014 compared to approximately \$6.3 million used in operations for the same period in 2013. Cash used in operations increased due to the increase in spending related to the preparations for and eventual launch and conduct of a multicenter clinical trial and an increase in spending related to professional fees combined with an increase in payroll-related expenses.

Net cash used in investing activities was approximately \$0.2 million for the year ended December 31, 2014 compared to approximately \$17,000 used in investing activities for the same period in 2013. Cash used in investing activities increased due to the purchase of computers and lab equipment during 2014 compared to the prior year.

Net cash provided by financing activities were approximately \$15.7 million and approximately \$6.2 million for each of the years ended December 31, 2014 and 2013, respectively. During the year ended December 31, 2014, the Company issued common stock and received net proceeds of approximately \$15.4 million and approximately \$0.4 million from the exercise of warrants and options. During the year ended December 31, 2013, the Company issued common stock and received net proceeds of approximately \$2.9 million and approximately \$3.5 million from the exercise of warrants and options. These increases were offset by payments on notes payable of \$0.2 million and \$0.1 million for the year ended December 31, 2014 and 2013, respectively.

We have cumulative losses of approximately \$112.2 million and a stockholders' equity of \$22.0 million at December 31, 2015.

Off-Balance Sheet Arrangements

We do not have any off-balance sheet arrangements that have or are reasonably likely to have a current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources that is material to investors.

Seasonality

We do not have a seasonal business cycle. Our operating results are generally derived evenly throughout the calendar year.

Critical Accounting Policies

Our financial statements have been prepared in accordance with accounting principles generally accepted in the United States. To prepare these financial statements, we must make estimates and assumptions that affect the reported amounts of assets and liabilities. These estimates also affect our expenses. Judgments must also be made about the disclosure of contingent liabilities. Actual results could be significantly different from these estimates. We believe that the following discussion addresses the accounting policies that are necessary to understand and evaluate our reported financial results.

Derivatives

All derivatives are recorded at fair value and recorded on the balance sheet. Fair values for securities traded in the open market and derivatives are based on quoted market prices. Where market prices are not readily available, fair values are determined using market based pricing models incorporating readily observable market data and requiring judgment and estimates.

Fair Value of Financial Instruments

Fair value is defined as the price that would be received to sell an asset, or paid to transfer a liability, in an orderly transaction between market participants. A fair value hierarchy has been established for valuation inputs that gives the highest priority to quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The fair value hierarchy is as follows:

- Level 1 Inputs Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity has the
 ability to access at the measurement date.
- Level 2 Inputs Inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These might include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the asset or liability (such as interest rates, volatilities, prepayment speeds, credit risks, etc.) or inputs that are derived principally from or corroborated by market data by correlation or other means.
- Level 3 Inputs Unobservable inputs for determining the fair values of assets or liabilities that reflect an entity's own assumptions about the assumptions that market participants would use in pricing the assets or liabilities.

Income Taxes

The Company uses the asset and liability method in accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on differences between financial reporting and income tax carrying amounts of assets and liabilities and are measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse. The Company reviews deferred tax assets for a valuation allowance based upon whether it is more likely than not that the deferred tax asset will be fully realized. A valuation allowance, if necessary, is provided against deferred tax assets, based upon management's assessment as to their realization.

Research and Development Costs

Research and development costs are expensed as incurred. Research and development reimbursements and grants are recorded by the Company as a reduction of research and development costs.

Share-Based Payments

We estimate the fair value of each stock option award at the grant date by using the Black-Scholes option pricing model and common shares based on the market price of the Company's common stock on the date of the share grant. The fair value determined represents the cost for the award and is recognized over the vesting period during which an employee is required to provide service in exchange for the award. As share-based compensation expense is recognized based on awards ultimately expected to vest, we reduce the expense for estimated forfeitures based on historical forfeiture rates. Previously recognized compensation costs may be adjusted to reflect the actual forfeiture rate for the entire award at the end of the vesting period. Excess tax benefits, if any, are recognized as an addition to paid-in capital.

Recent Accounting Pronouncements

In April 2015, the FASB issued an Accounting Standards Update that requires 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 guidance is effective for annual and interim reporting periods beginning after December 15, 2015, but early adoption is permitted. The Company adopted ASU 2015-03 on the consolidated financial statements in 2015. The adoption of ASU 2015-03 has no impact on the Company's consolidated financial statements.

Management does not believe that any other recently issued, but not yet effective accounting pronouncements, if adopted, would have a material effect on the accompanying consolidated financial statements.

Subsequent Event

On January 4, 2016, the Company sold 40,656 shares of common stock for gross proceeds of \$130,156 as part of the Sales Agreement with MLV.

On January 22, 2016, 500 shares of restricted stock vested and the Company issued 500 shares of common stock to an employee.

On January 27, 2016, the Company issued 114,169 shares of common stock for the conversion of 164,580 warrants.

On February 16, 2016, the Company entered into a Service agreement with Medpace, Inc. to be its clinical research organization for the Phase 3 trial of Iomab - B. The total project is estimated to cost approximately \$6.6 million.

On February 16, 2016, the Company issued 10,750 shares of common stock to a consultant with a fair value of \$19,350.

On February 22, 2016, 500 shares of restricted stock vested and the Company issued 500 shares of common stock to an employee.

On February 29, 2016 the Company sold 15,946 shares of common stock for gross proceeds of \$33,038 as part of the Sales Agreement with MLV.

On March 3, 2016, the Company sold 82,557 shares of common stock for gross proceeds of \$170,686 as part of the Sales Agreement with MLV.

On March 4, 2016, the Company sold 21,109 shares of common stock for gross proceeds of \$43,298 as part of the Sales Agreement with MLV.

On March 7, 2016, the Company sold 38,369 shares of common stock for gross proceeds of \$79,216 as part of the Sales Agreement with MLV.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

Interest rate risk

Our cash and cash equivalents include all highly liquid investments with an original maturity of three months or less. Because of the short-term maturities of our cash and cash equivalents, we do not believe that an increase in market rates would have a significant impact on the realized value of our investments. We place our cash and cash equivalents on deposit with financial institutions in the United States. The Federal Deposit Insurance Corporation covers \$0.3 million for substantially all depository accounts. We may from time to time have amounts on deposit in excess of the insured limits. As of December 31, 2015, we had approximately \$25.4 million, which exceeded these insured limits.

Foreign currency exchange risk

We currently have limited, but may in the future have increased, clinical and commercial manufacturing agreements which are denominated in Euros or other foreign currencies. As a result, our financial results could be affected by factors such as a change in the foreign currency exchange rate between the U.S. dollar and the Euro or other applicable currencies, or by weak economic conditions in Europe or elsewhere in the world. We are not currently engaged in any foreign currency hedging activities.

Market indexed security risk

We have issued derivative warrants to various holders underlying shares of our common stock. These warrant investments are remeasured to their fair value at each reporting period with changes in their fair value recorded as derivative gain (loss) in the accompanying consolidated statement of operations. We use a modified binomial valuation model for valuation of the derivative warrants.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA.

REPORT OF MANAGEMENT

The management of Actinium Pharmaceutical, Inc. ("Actinium") is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rule 13a-15(f) or 15d-15(f) under the Securities Exchange Act of 1934. Actinium's internal control system was designed to provide reasonable assurance to the company's management and Board of Directors regarding the preparation and fair presentation of published financial statements.

Actinium management assessed the effectiveness of the company's internal control over financial reporting as of December 31, 2015. In making this assessment, it used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control – Integrated Framework (2013 framework). Based on its assessment, Actinium management believes that, as of December 31, 2015, the Company's internal control over financial reporting is effective based on those criteria.

GBH CPAs, PC, the independent registered public accounting firm that audited the financial statements included in this Annual Report, has issued an attestation report on the company's internal control over financial reporting.

/s/ Kaushik J. Dave

Kaushik J. Dave Chief Executive Officer, Interim Chief Financial Officer and Director March 11, 2016

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM ON INTERNAL CONTROL OVER FINANCIAL REPORTING

To the Board of Directors and Stockholders of Actinium Pharmaceuticals, Inc. New York, NY

We have audited Actinium Pharmaceutical, Inc.'s internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Actinium Pharmaceutical, Inc.'s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying 10-K. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit.

We conducted our audit 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 effective internal control over financial reporting was maintained in all material respects. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audit also included performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

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

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

In our opinion, Actinium Pharmaceutical, Inc. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2014, based on criteria established in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

We have also audited, in accordance with the Public Company Accounting Oversight Board (United States), the consolidated financial statements as of and for the year ended December 31, 2015, of the Company and our report dated March 11, 2016, expressed an unqualified opinion on those financial statements.

/s/ GBH CPAs, PC

GBH CPAs, PC www.gbhcpas.com Houston, Texas March 11, 2016

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM ON CONSOLIDATED FINANCIAL STATEMENTS

To the Board of Directors and Stockholders of Actinium Pharmaceuticals, Inc. New York, NY

We have audited the accompanying consolidated balance sheets of Actinium Pharmaceuticals, Inc. as of December 31, 2015 and 2014, and the related consolidated statements of operations, stockholders' equity (deficit) and cash flows for each of the three years ended December 31, 2015. Actinium Pharmaceuticals, Inc.'s management is responsible for these financial statements. 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. An audit 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 consolidated financial statements referred to above present fairly, in all material respects, the financial position of Actinium Pharmaceuticals, Inc. as of December 31, 2015 and 2014 and the results of its operations and its cash flows for each of the three years ended December 31, 2015 in conformity with accounting principles generally accepted in the United States of America.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), Actinium Pharmaceutical Inc.'s internal control over financial reporting as of December 31, 2015, based on criteria established in Internal Control—Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated March 11, 2016, expressed an unqualified opinion on the Company's internal control over financial reporting.

/s/ GBH CPAs, PC

GBH CPAs, PC www.gbhcpas.com Houston, Texas March 11, 2016

Actinium Pharmaceuticals, Inc. Consolidated Balance Sheets

	2015	December 31, 2014
<u>Assets</u>		
Current Assets:		
Cash and cash equivalents	\$ 25,643,273	\$ 6,706,802
Restricted cash - current	34,733	-
Prepaid expenses and other current assets	803,463	699,851
Total Current Assets	26,481,469	7,406,653
Property and equipment, net of accumulated depreciation	106,112	127,700
Restricted cash	-	34,733
Total Assets	\$ 26,587,581	\$ 7,569,086
Linkilities and Stanlahaldows' Family, (Definite)		
<u>Liabilities and Stockholders' Equity (Deficit)</u>		
Current Liabilities:		
Accounts payable and accrued expenses	\$ 1,473,936	\$ 2,283,796
Accounts payable and accrued expenses - related parties	25,000	214,357
Notes payable	265,695	283,552
Derivative liabilities	2,848,902	6,709,911
Total Current Liabilities	4,613,533	9,491,616
Total Current Liabinucs	4,015,555	9,491,010
Total Liabilities	1 612 522	0.401.616
Total Elabilities	4,613,533	9,491,616
Commitments and contingencies		
Stockholders' Equity (Deficit):		
Preferred stock, \$0.001 par value; 50,000,000 authorized, 0 shares issued and outstanding		
Common stock, \$0.001 par value; 200,000,000 shares authorized; 44,066,541 and 29,971,839 shares issued	_	-
and outstanding, respectively	44,067	29,972
Additional paid-in capital	134,160,059	89,252,262
Accumulated deficit	(112,230,078)	(91,204,764)
Total Stockholders' Equity (Deficit)	21,974,048	(1,922,530)
Total Stockholders Equity (Delicit)	21,9/4,048	(1,922,330)
Total Liabilities and Stockholders' Equity (Deficit)	\$ 26,587,581	\$ 7,569,086
See accompanying notes to consolidated financial statements.		
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Actinium Pharmaceuticals, Inc. Consolidated Statements of Operations

	For the Year Ended December 31,				
	2015	2014	2013		
Revenue	\$ -	\$ -	\$ -		
Operating expenses:					
Research and development, net of reimbursements	13,311,739	12,267,313	3,109,331		
General and administrative	11,464,560	10,175,323	3,476,879		
Depreciation expense	53,465	37,908	1,560		
Loss on disposition of equipment	-	-	4,122		
Total operating expenses	24,829,764	22,480,544	6,591,892		
Loss from operations	(24,829,764)	(22,480,544)	(6,591,892)		
Other income (expense):					
Interest expense	(7,868)	(866)	(2,508)		
Gain (loss) on change in fair value of derivative liabilities	3,812,318	(2,206,099)	(4,179,392)		
Total other income (expense)	3,804,450	(2,206,965)	(4,181,900)		
Net loss	\$ (21,025,314)	\$ (24,687,509)	\$ (10,773,792)		
Net loss per common share - basic and diluted	\$ (0.55)	\$ (0.90)	\$ (0.47)		
Weighted average common shares outstanding - basic and diluted	38,158,480	27,363,748	22,752,752		

See accompanying notes to consolidated financial statements.

Actinium Pharmaceuticals, Inc. Consolidated Statement of Changes in Stockholders' Equity (Deficit) For the Years Ended December 31, 2015, 2014 and 2013

	Common Stock			Additional Paid-In	Accumulated	Stockholo Equity	
•	Shares		Amount	Capital	Deficit	(Defici	t)
Balance, January 1, 2013	21,391,665	\$	21,392	\$ 56,867,706	\$ (55,743,463)		
			·	i i		,	
Stock-based compensation	265,834		265	657,547	-	657	,812
Proceeds from the sale of common stock, net of offering							
costs	554,310		554	2,882,703	-	2,883	,
Issuance of common stock from exercise of options	16,650		17	13,036	-		,053
Issuance of common stock from exercise of warrants	2,336,988		2,337	3,465,058	-	3,467	,395
Transfer of warrant derivatives from liability to equity							
classification	-		-	1,047,095	-	1,047	
Net loss	_		_		(10,773,792)	(10,773	,792)
Balance, December 31, 2013	24,565,447		24,565	64,933,145	(66,517,255)	(1,559	,545)
Stock-based compensation	379,901		381	6,280,248	-	6,280	,629
Proceeds from the sale of common stock, net of offering							
costs	2,379,433		2,380	15,432,925	-	15,435	,
Issuance of common stock from exercise of options	310,400		310	274,843	-		,153
Issuance of common stock from exercise of warrants	2,336,658		2,336	157,658	-		,994
Direct costs incurred before shares are issued				(30,000)	-	(30	,000)
Transfer of warrant derivatives from liability to equity							
classification	-		-	2,203,443	-	2,203	
Net loss			<u>-</u>		(24,687,509)	(24,687	',50 <u>9</u>)
Dalaman Danamban 21 2014	29,971,839		29,972	89,252,262	(91,204,764)	(1,922	,530)
Balance, December 31, 2014							
Stock-based compensation	344,784		345	7,061,277	_	7,061	622
Proceeds from the sale of common stock and warrants,	511,701		313	7,001,277		7,001	,022
net of offering costs	11,993,641		11,994	37,625,965	_	37,637	959
Issuance of common stock from exercise of options	20,000		20	15,660	_		,680
Issuance of common stock from exercise of warrants	1,736,277		1,736	156,204	_		,940
Transfer of warrant derivatives from liability to equity	-,,,-,,-,,		2,7.2.0				,
classification	_		_	48,691	_	48	,691
Net loss	_		_	_	(21,025,314)	(21,025	,
Balance, December 31, 2015	44,066,541	\$	44,067	\$134,160,059	\$(112,230,078)	\$ 21,974	
· · · · · · · · · · · · · · · · · · ·	11,000,041	Ψ	11,007	\$100,007	\$(112,200,070)		,,,,,,

See accompanying notes to consolidated financial statements.

Actinium Pharmaceuticals, Inc. Consolidated Statements of Cash Flows

For the Year Ended

	December 31,			
	2015	2014	2013	
Cash Flows From Operating Activities:				
Net loss	\$ (21.025.314)	\$ (24,687,509)	\$ (10,773,792)	
Adjustments to reconcile net loss to net cash provided by (used in) operating activities:	, , , , , ,	, , , , , , , , , ,	, (:,,)	
Stock-based compensation expense	7,061,622	6,280,629	657,812	
Depreciation expense	53,465	37,908	1,560	
Loss on disposition of equipment	-	-	4,122	
Loss (gain) on change in fair value of derivative liabilities	(3,812,318)	2,206,099	4,179,392	
Changes in operating assets and liabilities:				
(Increase) decrease in:				
Prepaid expenses and other current assets	162,083	(193,894)	106,579	
Increase (decrease) in:	,		Í	
Accounts payable and accrued expenses	(793,949)	1,874,841	(518,089)	
Accounts payable and accrued expenses - related party	(189,357)	133,172	50,000	
Net Cash Used In Operating Activities	(18,543,768)	(14,348,754)	(6,292,416)	
Cash Flows From Investing Activities:				
Restricted cash	_	(34,733)	_	
Purchase of property and equipment	(47,788)	(151,688)	(16,592)	
Net Cash Used In Investing Activities	(47,788)	(186,421)	(16,592)	
The cush osed in investing receivables	(47,700)	(100,421)	(10,372)	
Cash Flows From Financing Activities:				
Payments on note payable	(283,552)	(161,841)	(140,000)	
Sales of stock, net of offering costs	37,637,959	15,435,305	2,883,257	
Proceeds from the exercise of options	15,680	275,153	13,053	
Proceeds from the exercise of warrants	157,940	159,994	3,467,395	
Net Cash Provided By Financing Activities	37,528,027	15,708,611	6,223,705	
	37,320,027	13,700,011	0,223,703	
Net change in cash	18,936,471	1,173,436	(85,303)	
Cash at beginning of year	6,706,802	5,533,366	5,618,669	
Cash at end of year	\$ 25,643,273	\$ 6,706,802	\$ 5,533,366	
Supplemental disclosures of cash flow information:				
Cash paid for interest	\$ 7,868	\$ 866	\$ 561	
		\$ -		
Cash paid for taxes	\$ -	\$ -	\$ -	
Supplemental disclosure of non-cash investing and financing activities:				
Stock issuance costs included in accounts payable and accrued expenses	¢	¢ 20,000	¢	
	\$ -	\$ 30,000	\$ -	
Insurance prepaid through premium finance	\$ 265,695	\$ 287,568	\$ 157,825	
Fair value of warrants issued with stock	\$ 4,738,161	\$ -	\$ -	
Transfer from derivative liability classification to equity classification	\$ 48,691	\$ 2,203,443	\$ 1,047,095	

See accompanying notes to consolidated financial statements.

Actinium Pharmaceuticals, Inc. Notes to Consolidated Financial Statements

Note 1 – Description of Business and Summary of Significant Accounting Policies

Nature of Business - Actinium Pharmaceuticals, Inc. (the "Company" or "Actinium") is a biotechnology company committed to developing breakthrough therapies for life threatening diseases using its alpha particle immunotherapy ("APIT") platform and other related and similar technologies. Actinium, together with its wholly owned subsidiary, MedActinium, Inc., is hereinafter referred to collectively as "Actinium" or the "Company". We have initiated collaborative efforts with large institutions to establish the proof of concept of APIT and have supported one Phase 1/2 clinical trial and one Phase 1 clinical trial at Memorial Sloan-Kettering Cancer Center ("MSKCC") under an MSKCC Physician IND Application. In 2012, Actinium launched a multi-center corporate sponsored trial in acute myeloid leukemia patients. Actinium's objective, through research and development, is to produce reliable cancer fighting products which utilize monoclonal antibodies linked with alpha particle emitters or other appropriate payloads to provide very potent targeted therapies. The initial clinical trials of Actinium's compounds have been with patients having acute myeloid leukemia and it is believed that Actinium's APIT platform will have wider applicability for different types of cancer where suitable monoclonal antibodies can be found.

On December 28, 2012, the Company entered into a transaction (the "Share Exchange"), pursuant to which the Company acquired 100% of the issued and outstanding equity securities of Actinium Pharmaceuticals, Inc. ("API"), in exchange for the issuance of approximately 99% of the issued and outstanding common stock, par value \$0.001 per share, of the Company. As a result of the Share Exchange, the Company was then considered a holding company operating through API, a clinical-stage biopharmaceutical company developing certain cancer treatments.

On March 20, 2013, the Company's subsidiary, Actinium Pharmaceuticals, Inc., changed its name to Actinium Corporation. On April 11, 2013, the Company changed its domicile from the State of Nevada to the State of Delaware and changed its name from Cactus Ventures, Inc. to Actinium Pharmaceuticals, Inc.

On September 25, 2013, in accordance with a Certificate of Ownership Merging Actinium Corporation into the Actinium Pharmaceuticals, Inc. filed in Delaware, the Company merged (the "Merger") into itself Actinium Corporation (a 93.7% owned subsidiary), and Actinium Corporation ceased to exist. As a result of the Merger, Actinium Corporation stock owned by the Company was cancelled and each share of Actinium Corporation not owned by the Company was exchanged for 0.333 shares of Company's common stock. A total of 3,970,137 shares of Actinium Corporation common stock was exchanged for 1,322,055 shares of Company common stock.

Principles of Consolidation - The consolidated financial statements include the Company's accounts and those of the Company's wholly owned subsidiaries. All significant intercompany accounts and transactions have been eliminated.

Use of Estimates in Financial Statement Presentation - The preparation of these consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

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

Cash and Cash Equivalents - The Company considers all highly liquid accounts with original maturities of three months or less to be cash equivalents. Balances held by the Company are typically in excess of FDIC insured limits. At December 31, 2015 and 2014, all of the Company's cash was deposited in one bank.

Property and Equipment - Machinery and equipment are recorded at cost and depreciated on a straight-line basis over estimated useful lives of three years. Furniture and fixtures are recorded at cost and depreciated on a straight-line basis over estimated useful lives of three years. When assets are retired or sold, the cost and related accumulated depreciation are removed from the accounts, and any related gain or loss is reflected in operations. Repairs and maintenance expenditures are charged to operations.

Impairment of Long-Lived Assets - Management reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount may not be realizable or at a minimum annually during the fourth quarter of the year. If an evaluation is required, the estimated future undiscounted cash flows associated with the asset are compared to the asset's carrying value to determine if an impairment of such asset is necessary. The effect of any impairment would be to expense the difference between the fair value of such asset and its carrying value.

Derivatives - All derivatives are recorded at fair value on the balance sheet. Fair values for securities traded in the open market and derivatives are based on quoted market prices. Where market prices are not readily available, fair values are determined using market based pricing models incorporating readily observable market data and requiring judgment and estimates.

Fair Value of Financial Instruments - Fair value is defined as the price that would be received to sell an asset, or paid to transfer a liability, in an orderly transaction between market participants. A fair value hierarchy has been established for valuation inputs that gives the highest priority to quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The fair value hierarchy is as follows:

Level 1 Inputs - Unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity has the ability to access at the measurement date.

Level 2 Inputs - Inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These might include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the asset or liability (such as interest rates, volatilities, prepayment speeds, credit risks, etc.) or inputs that are derived principally from or corroborated by market data by correlation or other means.

Level 3 Inputs - Unobservable inputs for determining the fair values of assets or liabilities that reflect an entity's own assumptions about the assumptions that market participants would use in pricing the assets or liabilities.

The following tables set forth assets and liabilities measured at fair value on a recurring and non-recurring basis by level within the fair value hierarchy as of December 31, 2015 and 2014. As required by ASC 820 "Fair Value Measurements and Disclosures", financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Company's assessment of the significance of a particular input to the fair value measurement requires judgment, and may affect the valuation of fair value assets and liabilities and their placement within the fair value hierarchy levels.

	_	Level 1	Level 1 Level 2 Level 3		Level 3	 Total
Derivative liabilities:						
At December 31, 2015		-	-	\$	2,848,902	\$ 2,848,902
At December 31, 2014		-	-	\$	6,709,911	\$ 6,709,911
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Income Taxes - The Company uses the asset and liability method in accounting for income taxes. Under this method, deferred tax assets and liabilities are determined based on differences between financial reporting and income tax carrying amounts of assets and liabilities and are measured using the enacted tax rates and laws that will be in effect when the differences are expected to reverse. The Company reviews deferred tax assets for a valuation allowance based upon whether it is more likely than not that the deferred tax asset will be fully realized. A valuation allowance, if necessary, is provided against deferred tax assets, based upon management's assessment as to their realization.

Research and Development Costs – Research and development costs are expensed as incurred. Research and development reimbursements and grants are recorded by the Company as a reduction of research and development costs.

Share-Based Payments – The Company estimates the fair value of each stock option award at the grant date by using the Black-Scholes option pricing model. The fair value determined represents the cost for the award and is recognized over the vesting period during which an employee is required to provide service in exchange for the award. As share-based compensation expense is recognized based on awards ultimately expected to vest, the Company reduces the expense for estimated forfeitures based on historical forfeiture rates. Previously recognized compensation costs may be adjusted to reflect the actual forfeiture rate for the entire award at the end of the vesting period. Excess tax benefits, if any, are recognized as an addition to paid-in capital.

Earnings (Loss) Per Common Share – Basic earnings (loss) per common share is computed by dividing the net income (loss) available to common stockholders by the weighted average number of common shares outstanding during the reporting period. For the years ended December 31, 2015, 2014 and 2013, the Company's potentially dilutive shares, which include outstanding common stock options and warrants have not been included in the computation of diluted net loss per share as the result would be anti-dilutive.

	December 31,	December 31,	December 31,
	2015	2014	2013
Options	3,971,583	3,013,084	1,985,384
Warrants	8,954,031	7,634,058	9,673,290
Total	12,925,614	10,647,142	11,658,674

Recent Accounting Pronouncements – In April 2015, the FASB issued an Accounting Standards Update that requires 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 guidance is effective for annual and interim reporting periods beginning after December 15, 2015, but early adoption is permitted. The Company adopted ASU 2015-03 on the consolidated financial statements in 2015.

Subsequent Events – The Company's management reviewed all material events through the date of the consolidated financial statements were issued for subsequent event disclosure consideration. See Note 10.

Note 2 - Related Party Transactions

MSKCC:

On February 11, 2002, the Company entered into a License, Development and Commercialization Agreement with Sloan-Kettering Institute of Cancer Research ("SKI"), an entity related to MSKCC, a majority shareholder of the Company. The agreement was amended in August 2006. Pursuant to the agreement, the Company licensed certain intellectual property from SKI, including critical patents with respect to the Company's core technology that also supports ongoing research and clinical development of related drug candidates. MSKCC agreed, subject to certain conditions, to utilize the funds paid for certain clinical and preclinical programs and activities related to the Company's drug development and clinical study programs, including the payment of certain costs and expenses that would otherwise have been borne by the Company.

The Company is obligated to make the following milestone payments:

Milestones Payments

(1) filing of an New Drug Application ("NDA") or regulatory approval for each licensed product \$750,000 (2) upon the receipt of regulatory approval from the U.S. FDA for each licensed product 1,750,000

Under the agreement, the Company shall pay to MSKCC on a country-by-country basis a royalty of 2% of net sales of all licensed products until the later of: (1) 10 years from the first commercial sale, or (2) when the patents expire.

For the years ended December 31, 2015, 2014 and 2013, the annual maintenance fee and third party costs incurred was \$0.2 million, \$0.3 million and \$0.1 million, respectively. As of December 31, 2015 and 2014, the Company has a payable to MSKCC covering the annual maintenance costs, clinical trials expense and patent costs totaling \$0 and \$0.2 million, respectively.

On December 21, 2015, Actinium entered into an investor rights agreement with MSKCC. Under the terms of the agreement, MSKCC has agreed to forebear from transferring or otherwise disposing of its approximately 5.7 million shares of the Company's common stock (other than pursuant to a piggyback registration as described below) until the start of the Actimab-A Phase 2 clinical study (but, in no event until later than March 31, 2016). Thereafter MSKCC shall be permitted to sell its shares subject to a weekly volume limitation of 150,000 shares (which limit may be increased to up to 250,000 shares per week to the extent any prior weekly allotments are not fully used) and applicable law so long as MSKCC maintains at least 25% of its current shareholding in Actinium through December 31, 2016. Actinium has granted MSKCC piggyback registration rights that would be triggered in the event Actinium are to engage in a public registered offering of its shares for its own account where other shareholders are participating as selling shareholders or where such public registered offering is for the account of other selling shareholders. In addition, following December 31, 2016, Actinium has granted MSKCC unlimited Form S-3 registration rights with respect to its shares.

Placement Agent:

On December 9, 2013, the Company entered into an engagement agreement with a Healthcare Investment Bank ("Placement Agent") as its placement agent for the 2013 Common Stock Offering whereby a director of the Company was the former Head of its Healthcare Investment Banking team ("the 2013 Offering"). The 2013 Offering was completed in two tranches, December 9, 2013 and January 10, 2014. The agreement entered in on December 9, 2013 included a cash fee equal to 10% of the gross proceeds raised, a non-accountable expense reimbursement equal to 2% of the gross proceeds raised and warrants to purchase shares of the Company's Common Stock in an amount equal to 10% of the shares of common stock issued or issuable. Subsequent to the closing of the 2013 Offering, the placement agent continued to provide certain financial advisory services to the Company until three months after the Company had uplisted its securities for trading on a U.S. National Exchange for a monthly fee of \$25,000. On May 28, 2014, the Company and the placement agent agreed to terminate the December 9, 2013 engagement agreement. As of December 31, 2015 and 2014, the Company owed its placement agent \$25,000.

For the years ended December 31, 2014 and 2013, the placement agent received a cash fee of \$397,303 and \$399,103, respectively, from the 2013 Offering and was issued warrants to purchase 68,976 and 69,289 shares, respectively, of the Company's Common Stock at \$9 per share for a period of 5 years.

On July 10, 2014, the Company completed another public offering pursuant to a shelf registration statement previously filed where the placement agent acted as lead manager. The placement received a cash fee of \$455,108.

On February 11, 2015, the Company completed a public offering that totaled 4,444,444 common shares, representing gross proceeds of approximately \$20.0 million and a net amount of approximately \$18.5 million after deducting the underwriting discount and the other offering expenses. The Placement Agent acted as the sole book-running manager for the offering. The offering was made pursuant to a shelf registration statement previously filed with and declared effective by the U.S. Securities and Exchange Commission. The Placement Agent received a cash fee of approximately \$1.4 million.

On June 9, 2015, the Company completed a registered direct offering of \$5.0 million of its common stock. Under the terms of the subscription agreements, the Company issued an aggregate of 1,923,078 shares of the Company's common stock at a purchase price of \$2.60 per share. The Placement Agent acted as the sole placement agent with respect to the offering. The Placement Agent received a cash fee of approximately \$0.4 million.

Note 3 – Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consisted of the following at December 31, 2015 and 2014:

	December 31, 2015	ember 31, 2014
Security deposit	\$ -	\$ 11,350
Prepaid insurance	376,906	368,223
Other prepaid expenses	426,557	320,278
Total	\$ 803,463	\$ 699,851

Note 4 – Property and Equipment

Property and equipment consisted of the following at December 31, 2015 and 2014:

		Dec	ember 31,	Dec	cember 31,
	Lives		2015		2014
Lab equipment	3 years	\$	116,070	\$	108,713
Office equipment	3 years		82,974		58,455
Less: accumulated depreciation			(92,932)		(39,468)
Property and equipment, net		\$	106,112	\$	127,700

Depreciation expense for the years ended December 31, 2015, 2014 and 2013 was \$53,465, \$37,908 and \$1,560, respectively. The Company wrote off certain undepreciated property and equipment during the year ended December 31, 2013 and recorded a loss of \$4,122 on the disposition.

Note 5 – Note Payable

On October 25, 2014, the Company entered into a premium finance agreement for its multiple commercial insurance policies in the amount of \$43,075. Pursuant to the agreement, the Company was required to pay \$4,882 in monthly installments for nine months. On December 28, 2014, the Company entered into a premium finance agreement for its director and officer liability insurance policy in the amount of \$0.2 million. Pursuant to the agreement, the Company was required to pay \$27,614 in monthly installments for nine months. As of December 31, 2015, the Company paid the agreements in full.

On December 28, 2015, the Company entered into a premium finance agreement for its director and officer liability insurance policy in the amount of \$0.3 million. Pursuant to the agreement, the Company was required to pay \$30,077 in monthly installments for nine months.

As of December 31, 2015 and 2014, the outstanding balance related to the premium finance agreements was \$0.3 million.

Note 6 – Derivatives

The Company has determined that certain warrants the Company has issued contain provisions that protect holders from future issuances of the Company's common stock at prices below such warrants' respective exercise prices and these provisions could result in modification of the warrants' exercise price based on a variable that is not an input to the fair value of a "fixed-for-fixed" option as defined under FASB ASC Topic No. 815 - 40. The warrants granted in connection with the issuance of the 2012 Common Stock Offering, and the placement agent warrants contain anti-dilution provisions that provide for a reduction in the exercise price of such warrants in the event that future common stock (or securities convertible into or exercisable for common stock) is issued (or becomes contractually issuable) at a price per share (a "Lower Price") that is less than the exercise price of such warrant at the time. The amount of any such adjustment is determined in accordance with the provisions of the warrant agreement and depends upon the number of shares of common stock issued (or deemed issued) at the Lower Price and the extent to which the Lower Price is less than the exercise price of the warrant at the time.

Activities for derivative warrant instruments during the years ended December 31, 2015 and 2014 were as follows:

	Shares subject to warrants	Fair Value
Balance, December 31, 2013	1,968,623	\$ 6,707,255
Transfer from liability to equity classification	(319,294)	(2,203,443)
Change in fair value		2,206,099
Balance, December 31, 2014	1,649,329	6,709,911
Transfer from liability to equity classification	(21,960)	(48,691)
Change in fair value		(3,812,318)
Balance, December 31, 2015	1,627,369	\$ 2,848,902

During the year ended December 31, 2015, 2,013,360 warrants were exercised, of which 21,960 were derivative warrants. The fair value of these derivative warrants totaling \$48,691 were measured on the various exercise dates and reclassified to additional paid-in capital.

During the year ended December 31, 2014, 2,501,993 warrants were exercised, of which 319,294 were derivative warrants. The fair value of these derivative warrants totaling \$2,203,443 were measured on various exercise dates and reclassified to additional paid-in capital.

The fair values of the derivative warrants were calculated using a modified binomial valuation model with the following assumptions at each balance sheet date.

	Dec	2015	De	2014
Market value of common stock on measurement date (1)	\$	3.23	\$	5.89
Adjusted exercise price	\$	2.48	\$	2.48
Risk free interest rate (2)		1.06%		1.10%
Warrant lives in years		2.0 years		3.0 years
Expected volatility (3)		87%		71%
Expected dividend yield (4)		-		-
Probability of stock offering in any period over 5 years (5)		100%		100%
Offering price (6)	\$	2.60	\$	4.50

- (1) The market value of common stock at the above measurement dates is based on the Company's trading price quoted on the NYSE MKT.
- (2) The risk-free interest rate was determined by management using the Treasury Bill rate as of the respective measurement date.
- (3) As of December 31, 2015, the volatility was estimated using the historical volatilities of the Company's common stock traded in NYSE MKT market. As of December 31, 2014, the volatility was estimated using the historical volatilities of comparable companies in the same industry and region.
- (4) Management determined the dividend yield to be 0% based upon its expectation that it will not pay dividends for the foreseeable future.
- (5) Management determines the probability of future stock offering at each evaluation date.
- (6) Represents the estimated offering price in future offerings as determined by management.

Note 7 - Commitments and Contingencies

License and Research Agreements

The Company has entered into license and research and development agreements with third parties under which the Company is obligated to make upfront payments as well as milestone and royalty payments. Notable inclusions in this category are:

a. AbbVie Biotherapeutics Corp. – The Company entered into a Product Development and Patent License Agreement with AbbVie Biotherapeutics Corp. in 2003 to secure exclusive rights to a specific antibody when conjugated with alpha emitting radioisotopes. Upon execution of the agreement, the Company made a license fee payment of \$3,000,000.

The Company agreed to make milestone payments totaling \$7,750,000 for the achievement of the following agreed to and contracted milestones:

Milestones	P	Payments
(1) when Company initiates a Phase I Clinical Trial of a licensed product	\$	750,000
(2) when Company initiates a Phase II Clinical Trial of a licensed product		750,000
(3) when Company initiates a Phase III Clinical Trial of a licensed product		1,500,000
(4) Biological License Application filing with U.S. FDA		1,750,000
(5) First commercial sale		1,500,000
(6) after the first \$10,000,000 in net sales		1,500,000

Under the agreement, the Company shall pay to AbbVie Biotherapeutics Corp. on a country-by-country basis a royalty of 12% of net sales of all licensed products until the later of: (1) 12.5 years after the first commercial sale, or (2) when the patents expire.

The Company met its first milestone in 2012 and upon reaching the milestone the Company paid AbbVie Biotherapeutics Corp. a milestone payment of \$750,000 on July 24, 2012. The milestone payment for the Phase 1 Clinical Trial was recorded as research and development expense. The Company has not initiated a Phase 2 Clinical Trial and no payment has been made to AbbVie Biotherapeutics Corp. since the July 24, 2012 payment.

- b. MSKCC see Note 2 Related Party Transactions.
- c. Oak Ridge National Laboratory ("ORNL") The Company is contracted to purchase radioactive material to be used for research and development, with a renewal option at the contract end. During the years ended December 31, 2015, 2014, and 2013, the Company purchased approximately \$0.8 million, \$0.6 million and \$0.3 million, respectively, of radioactive material with ORNL. On December 21, 2015, the Company signed a contract with ORNL to purchase \$0.9 million of radioactive material.
- d. Icon Clinical Research, LLC (formerly AptivSolutions) provides project management services for the study of the drug Ac-225-HuM195 (Actimab-A) used in the Company's Phase 1 and Phase 2 clinical trials. The total project was estimated to cost approximately \$1.9 million and required a 12.5% down payment of the total estimated project cost. The down payment totaling \$0.2 million was paid in 2007 and 2012. On August 6, 2012, October 22, 2012 and May 16, 2013, the agreement was amended to provide for additional services. The total project is now estimated at approximately \$2.7 million. AptivSolutions invoices the Company when services are rendered and the Company records the related expense to research and development expense.
 - For the years ended December 31, 2015, 2014 and 2013, the Company incurred expenses of approximately \$0.4 million, \$0.4 million and \$0.3 million, respectively, related to this agreement.
- e. On June 15, 2012, the Company entered into a license and sponsored research agreement with Fred Hutchinson Cancer Research Center ("FHCRC") to build upon previous and ongoing clinical trials, with BC8 (licensed antibody). FHCRC has currently completed both a Phase 1 and Phase 2 clinical trial with BC8 and the Company intends to start preparation for a pivotal trial leading to an FDA approval. The Company has been granted exclusive rights to the BC8 antibody and related master cell bank developed by FHCRC. The cost to develop the trial will range from \$13.2 million to \$23.5 million, depending on the trial design as required by the FDA. Under the terms of the sponsored research agreement, the Company will fund the FHCRC lab with \$0.2 million per year for the first two years and \$0.3 million thereafter. Payments made toward funding the lab will be credited toward royalty payments owed to FHCRC in the given year. A milestone payment of \$1 million will be due to FHCRC upon FDA approval of the first drug. Upon commercial sale of the drug, royalty payments of 2% of net sales will be due to FHCRC.

For the years ended December 31, 2015, 2014 and 2013, the Company incurred expenses of approximately \$0.3 million, \$0.2 million and \$0.1 million, respectively, related to this agreement.

f. On August 28, 2012, the Company entered into a clinical trial agreement with The University of Texas M.D. Anderson Cancer Center. The total estimated cost of conducting the clinical trial is approximately \$0.5 million, which includes a non-refundable institutional fee of \$14,500. The estimated cost is based on treating 24 patients through 2015. Upon execution of the agreement, the Company paid \$33,946.

During the years ended December 31, 2015 and 2014, the Company recorded an expense of approximately \$0 and \$0.1 million, respectively.

- g. On February 27, 2014, the Company entered into a manufacturing agreement with Goodwin Biotechnology Inc. ("Goodwin"). Goodwin oversees the current Good Manufacturing Practices (cGMP) production of a monoclonal antibody anticipated to be used in an upcoming phase 3 clinical trial of Iomab-B. Total cost of the agreement is \$5.0 million. The Company made a non-refundable payment of \$0.6 million upon execution of the agreement. Periodic payments will be made upon reaching certain milestones. As of December 31, 2015, the remaining cost of the agreement is approximately \$1.5 million. Goodwin bills the Company when services are rendered and the Company records the related expense to research and development costs. For the years ended December 31, 2015 and 2014, the Company paid Goodwin approximately \$4.2 million and \$3.6 million, respectively. As of December 31, 2015 and 2014, the Company owed \$0.1 million and \$0.7 million, respectively, to Goodwin.
- h. On September 30, 2014, the Company entered into a research agreement with the Albert Einstein College of Medicine of Yeshiva University ("Einstein"). According to the agreement, Einstein will use certain materials provided by the Company to complete a research project. The research project will explore the feasibility of using Actinium 225 to prepare patients with blood borne cancers to receive a hematopoietic stem cell transplant. Einstein will periodically provide the Company with reports showing project data or research. The total fixed price of the project is \$0.2 million which is payable to Einstein in three payments. During the years ended December 31, 2015 and 2014, the Company paid Einstein approximately \$0.1 million.

Lease Agreements

On April 22, 2014, the Company entered into a sublease agreement for office space located at 379 Thornall Street, Edison, NJ. This agreement expires on September 30, 2016. The Company issued a letter of credit for \$34,733 to the existing tenant and maintained a \$34,733 certified deposit as collateral for the letter of credit.

Future minimum obligations on the lease are:

For the year ending December 31,

2016 \$ 84,011

Note 8 - Equity

On December 9, 2013, the Company entered into an engagement agreement with its placement agent for the 2013 Common Stock Offering, (the "2013 Offering") The 2013 Offering was completed in two tranches, on December 9, 2013 and January 10, 2014.

On December 27, 2013, the Company completed the first sale of the 2013 Offering pursuant to a Unit Purchase Agreement, with certain accredited investors and pursuant to which: the investors agreed to purchase (i) an aggregate of 554,310 shares (the "Shares") of common stock at \$6.00 per share and (ii) five-year warrants to purchase an aggregate of 138,577 shares of common stock at an exercise price of \$9.00 per share. The Company received \$3.3 million in gross proceeds from the sale of securities and \$2.9 million net proceeds after deducting the underwriting discount and the other offering expenses. The transaction date fair value of the warrants of \$0.4 million was determined utilizing the Black-Scholes option pricing model utilizing the following assumptions: risk free interest rate – 0.07%, expected volatility – 84.06%, expected dividend yield - 0%, and a contractual life of 5 years.

In January 2014, the Company completed the final tranche of the 2013 Offering and received approximately \$3.3 million total gross proceeds from accredited investors ("2014 Closing"). The Company paid its placement agent total cash fees of approximately \$0.4 million and paid attorney fees of \$40,000 for their services resulting in net proceeds of \$2.9 million. In the 2014 Closing, the Company sold 551,810 shares of common stock at \$6.00 per share and granted 137,952 units of five-year warrants with an exercise price of \$9.00 per share. The warrants are exercisable for a period of five years from the date of issuance. The transaction date fair value of the warrants of \$0.6 million was determined utilizing the Black-Scholes option pricing model utilizing the following assumptions: risk free interest rate - 1.64%, expected volatility - 88%, expected dividend yield - 0%, and a contractual life of 5 years.

During January 2014, in connection with the 2014 Closing, the Company issued the Placement Agent warrants to purchase an aggregate of 68,976 shares of common stock with an exercise price of \$9.00 per share. The transaction date fair value of the warrants of \$0.3 million was determined utilizing the Black-Scholes option pricing model utilizing the following assumptions: risk free interest rate – 1.64%, expected volatility - 88%, expected dividend yield - 0%, and a contractual life of 5 years.

On March 24, 2014, the Company filed a shelf registration statement on Form S-3 (the "Registration Statement") which was effective on April 17, 2014. This Registration Statement contained two prospectuses: (i) a base prospectus which covers the offering, issuance and sale by the Company of up to \$200 million of its common stock, preferred stock, warrants and/or units; and (ii) a sales agreement prospectus covering the offering, issuance and sale by us of up to a maximum aggregate offering price of \$75,000,000 of its common stock that may be issued and sold under a sales agreement (the "Sales Agreement") with MLV & Co. LLC ("MLV") dated March 24, 2014. The Company will pay MLV in cash, upon the sale of common stock pursuant to the Sales Agreement, an amount equal to 3.0% of the gross proceeds from the sale of common stock. On April 28, 2014, the Company issued 500 shares and received net proceeds of \$6,000 under the Sales Agreement with MLV. During the year ended December 31, 2015, the Company issued 5,626,119 common shares with an average price of \$2.52 per share. The Company received \$15.1 million gross proceeds (\$14.7 million net proceeds) from the issuances.

On June 30, 2014, the Company received gross proceeds of \$12.5 million from a public offering of 1,670,000 shares of the Company's common stock, \$0.001 par value per share at a price to the public of \$7.50 per share less underwriting discounts. The Company paid an underwriting discount of \$0.9 million, paid other offering expenses of \$0.1 million, and paid attorney and auditor fees of \$0.1 million resulting in net proceeds of \$11.5 million. Under the terms of the underwriting agreement, the Company also granted the underwriters a 30-day option to purchase up to an additional 250,000 shares of common stock to cover over-allotments, if any, at the offering price.

On July 10, 2014, the underwriter exercised their over-allotment option to purchase an additional 157,123 shares from the Company for \$7.50 per share. Including the exercise of the over-allotment option of \$1.2 million, in gross proceeds, the Company's June offering totaled 1,827,123 shares, representing gross proceeds of approximately \$13.7 million and \$12.6 million net after deducting the underwriting discount and other offering expenses.

On February 11, 2015, the Company completed an underwritten offering of 4,444,444 shares of its common stock and warrants to purchase an aggregate of 3,333,333 shares of its common stock at a price to the public of \$4.50 per share. The warrants will be exercisable for a period of 4 years at an exercise price of \$6.50 per share and have a relative fair value of \$3,540,659 on the issuance date. The Company received net proceeds of approximately \$18.5 million, after deducting underwriting discounts and commissions and estimated offering expenses payable by us, and excluding the underwriters' over-allotment option. In addition, the Company granted the underwriters a 30-day option to purchase up to an additional 666,666 shares of common stock and warrants to purchase 499,999 shares of common stock solely to cover over-allotments, if any. The underwriter did not exercise the over-allotment option.

On June 9, 2015, the Company closed a financing with certain investors in which it raised approximately \$5,000,000 in gross proceeds or \$4,480,000 in net proceeds, after deducting placement agent's fees and other offering expenses. Investors purchased 1,923,078 shares of the Company's common stock, at a price per share of \$2.60.

During the year ended December 31, 2015, the Company issued 1,532,124 common shares for the cashless exercise of warrants. During the year ended December 31, 2015, the Company also issued 224,153 common shares for \$173,620 cash received from the exercise of options and warrants.

During the year ended December 31, 2014, the Company issued 2,162,181 common shares for the cashless exercise of warrants. During the year ended December 31, 2014, the Company also issued 484,877 common shares for \$435,147 cash received from the exercise of options and warrants.

During the year ended December 31, 2013, the Company issued 235,158 common shares for cashless exercise of warrants. During the year ended December 31, 2013, the Company also issued 2,118,480 common shares for \$3,480,448 cash received from the exercise of options and warrants.

Approval of the 2013 Amended and Restated Stock Plan

In September 2013, the Board of Directors of the Company approved the Company's 2013 Stock Plan. The expiration date of the plan is September 9, 2023 and the total number of underlying shares of the Company's common stock available for grant to employees, directors and consultants of the Company under the plan is 2,750,000 shares. In December 2015, the shareholders of the Company approved the second amendment to the plan and increased the number of shares authorized under the plan to 10,750,000 shares.

Approval of the Equity Incentive Plan

In September 2013, the Board approved the Company's 2013 Equity Incentive Plan. The expiration date of the plan is September 9, 2023 and the total number of shares of the Company's common stock available for grant to employees, directors and consultants of the Company under the plan is 450,000 shares. In December 2013, the shareholders of the Company approved the plan and increased the number of shares authorized under the plan to 1,000,000 shares.

Restricted Stock

During 2013, the Company granted employees, consultants and board members 312,500 shares of restricted stock. 80,000 shares of restricted stock vest 1 year from the grant date, 100,000 shares have a vesting period of 24 months. The remaining restricted shares granted are performance based and vest over time. The shares granted during the year ended December 31, 2013 were valued at \$0.7 million based on the stock price on the grant dates.

During the year ended December 31, 2014, the Company granted 633,041 shares of restricted stock and cancelled 50,000 shares of restricted stock. Of the total shares of restricted stock granted, 20,000 shares vest 3 months from the grant date, 30,374 shares vest 1 year from the grant date, 30,000 shares have a vesting period of 2 years, 202,497 shares have a vesting period of 4 years and 350,000 shares vest at the date of grant. The shares granted during the year ended December 31, 2014 were valued at \$4.9 million based on the stock price on the grant dates.

During the year ended December 31, 2015, the Company granted 479,651 shares of restricted common stock to consultants with a fair value of \$2.3 million based on the stock price on the grant dates. Of the 479,651 restricted share awards granted in 2015, 329,651 shares vested at the date of grant and 150,000 shares vest over a six-month period.

During the year ended December 31, 2015, the Company cancelled 126,265 shares of restricted stock originally granted to employees and issued a total of 152,499 options (see below). As a result of the cancellation of the 126,265 restricted shares, the Company recorded an expense of \$0.8 million for the grant-date fair value of the restricted stock for which the requisite service is expected to be rendered.

During the year ended December 31, 2015, 2014 and 2013, the Company recorded approximately \$3.4 million, \$3.7 million and \$0.2 million, respectively, in stock-based compensation for all of the restricted shares outstanding.

During the year ended December 31, 2015, the Company issued common shares totaling 344,784 for restricted shares granted in 2015 and prior years.

Stock Options

Following is a summary of option activities for the years ended December 31, 2015, 2014 and 2013:

			Weighted		
		Weighted	Average Remaining		
		Average	Contractual	Α	ggregate
	Number of	Exercise	Term		Intrinsic
	Units	Price	(in years)		Value
Outstanding, December 31, 2012	2,330,134	\$ 0.96	8.91	\$	685,000
Issued	787,450	6.62	10.00		-
Cancelled	(1,115,550)	0.92	-		-
Exercised	(16,650)	0.78	-		-
Outstanding, December 31, 2013	1,985,384	3.23	8.34		5,908,696
Issued	1,338,100	8.86	10.00		-
Exercised	(310,400)	0.95	-		-
Outstanding, December 31, 2014	3,013,084	5.98	8.35		4,728,842
Issued	1,554,499	2.78	10.00		-
Cancelled	(576,000)	8.70	-		-
Exercised	(20,000)	0.78	-		-
Outstanding, December 31, 2015	3,971,583	4.34	8.01		2,964,146
Exercisable, December 31, 2015	1,826,741	3.56	7.37		2,024,556

During 2013, the Company granted employees and board members 787,450 options to purchase the Company's common stock with exercise prices ranging from \$3.60 to \$6.70, a term of 10 years and vesting over a 4-year period. The fair value of \$3.7 million was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.36% - 1.55% (2) expected life of 6 years, (3) expected volatility of 83.32% - 98.45%, and (4) zero expected dividends.

During the year ended December 31, 2014, the Company granted employees, consultants, and its board members 1,338,100 options to purchase the Company's common stock with exercise prices ranging from \$0.78 to \$11.95 and a term of 10 years with vesting over a 4-year period. The options have an aggregated fair value of \$8.7 million that was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.77% - 2.07% (2) expected life of 6 years, (3) expected volatility of 82.47% - 87.76%, and (4) zero expected dividends.

During the year ended December 31, 2015, the Company granted employees, consultants, and its board members 1,554,499 options to purchase the Company's common stock with exercise prices ranging from \$1.79 to \$3.58 and a term of 10 years with vesting period ranging from 1 to 4.17 years. The options have an aggregated fair value of \$3.2 million that was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include: (1) discount rate of 1.56% - 1.91% (2) expected life of 6 years, (3) expected volatility of 85.01% - 94.89%, and (4) zero expected dividends.

During the years ended December 31, 2015, 2014 and 2013, the Company received gross proceeds of \$15,680, \$0.3 million and \$13,053 for exercise of options for 20,000 shares, 310,400 shares and 16,650 shares, respectively, of the Company's common stock.

All options issued and outstanding are being amortized over their respective vesting periods. The unrecognized compensation expense at December 31, 2015 and 2014 was \$7.2 million and \$10.2 million, respectively. During the years ended December 31, 2015, 2014 and 2013, the Company recorded option expense of \$3.4 million, \$2.4 million and \$0.3 million, respectively.

Warrants

Following is a summary of warrant activities for the years ended December 31, 2015, 2014 and 2013:

	Number of Units	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value
Outstanding, December 31, 2012	12,770,637	\$ 0.97	4.48	\$ 6,114,768
Granted	329,866	7.47	6.40	-
Exercised	(2,403,429)	1.58	-	-
Forfeited	(1,023,784)	-	-	-
Outstanding, December 31, 2013	9,673,290	1.06	4.89	47,396,307
Granted	491,928	8.33	7.90	-
Exercised	(2,501,993)	0.67	-	-
Forfeited	(29,167)	6.70	-	-
Outstanding, December 31, 2014	7,634,058	1.64	3.97	34,317,224
Granted	3,333,333	6.50	4.00	-
Exercised	(2,013,360)	0.41	-	-
Outstanding, December 31, 2015	8,954,031	3.73	2.93	10,199,230
Exercisable, December 31, 2015	8,669,031	3.59	2.75	10,199,230

During the year ended December 31, 2013, warrants to purchase 122,000 shares of common stock were granted to service providers at exercise prices ranging from \$3.60 to \$6.70 per share. These warrants have a term of 7 to 10 years and include (1) Warrants to purchase 72,000 shares of common stock vested immediately and were valued at \$0.2 million on the grant date; and (2) Warrants to purchase 50,000 shares of common stock vest over a year and were valued at \$0.2 million on the grant date. The fair value on the grant date was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include (1) discount rate of 1.36% - 1.55%, (2) expected term of 5 years, (3) expected volatility of 91.56%, and (4) zero expected dividends. As of December 31, 2013, unrecognized compensation expense related to the warrants was \$0.2 million.

During the year ended December 31, 2013, the Company also issued warrants to purchase 138,577 shares of the Company's common stock to investors and warrants to purchase 69,289 shares of the Company's common stock to its placement agent in connection with the 2013 Offering.

During the year ended December 31, 2013, 2,403,429 warrants were exercised by the warrant holders. The Company issued 2,336,988 shares of common stock and received gross proceeds of approximately \$3.5 million.

During the year ended December 31, 2014, the Company granted warrants to purchase 137,952 shares of the Company's common stock to investors and warrants to purchase 68,976 shares of the Company's common stock to its placement agent in connection with the January 2014 Closing.

During the year ended December 31, 2014, the Company also granted three consultants warrants to purchase 285,000 shares of the Company's common stock with exercise prices ranging from \$5.55 to \$11.66 per share and a term of 10 years. These warrants vest when certain milestones are met. The fair value of the warrants was \$2.1 million on the grant date and was calculated using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model include (1) discount rate of 1.56% - 1.66%, (2) expected term of 5 years, (3) expected volatility of 82.47-87.76%, and (4) zero expected dividends. As of December 31, 2014, unrecognized compensation expense related to the warrants was \$1.5 million.

During the year ended December 31, 2014, 2,501,993 warrants were exercised by the warrant holders. The Company issued 2,336,658 shares of common stock and received gross proceeds of \$0.2 million.

On February 11, 2015, the Company completed an underwritten offering of 4,444,444 shares of its common stock and warrants to purchase an aggregate of 3,333,333 shares of its common stock at a price of \$4.50 per share. The warrants are exercisable for a period of 4 years at an exercise price of \$6.50 per share. The transaction date relative fair value of the warrants of \$3.5 million was determined utilizing the Black-Scholes option pricing model. Variables used in the Black-Scholes option-pricing model include (1) discount rate of 1.26%, (2) expected term of 4 years, (3) expected volatility of 72%, and (4) zero expected dividends.

During the year ended December 31, 2015, 2,013,360 warrants were exercised by the warrant holders. The Company issued 1,736,277 shares of common stock and received gross proceeds of \$0.2 million.

During the year ended December 31, 2015, 2014 and 2013, the Company recorded stock-based compensation related to the warrants of \$0.2 million, \$0.1 million and \$0.2 million, respectively.

Note 9 – Income Taxes

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. Significant components of the Company's deferred tax assets and liabilities at December 31, 2015 and 2014 are as follows:

	2015	2014
Deferred tax assets:		
Net operating losses carry forward	\$ 28,910,183	\$ 22,866,340
Less: valuation allowance	(28,910,183)	(22,866,340)
Deferred tax assets, net	\$ -	\$ -

As of December 31, 2015, for U.S. federal income tax reporting purposes, the Company has approximately \$85.0 million of unused net operating losses ("NOLs") available for carry forward to future years. The benefit from the carry forward of such NOLs will begin expiring during the year ended December 31, 2021. Because United States tax laws limit the time during which NOL carry forwards may be applied against future taxable income, the Company may be unable to take full advantage of its NOL for federal income tax purposes should the Company generate taxable income. Further, the benefit from utilization of NOLs carry forwards could be subject to limitations due to material ownership changes that could occur in the Company as it continues to raise additional capital. Based on such limitations, the Company has significant NOLs for which realization of tax benefits is uncertain.

The difference between the income tax provision and the amount that would result if the U.S. Federal statutory rate of 34% were applied to pre-tax loss for the years ended December 31, 2015, 2014 and 2013 are as follows:

			For the year	ar ended		
	December 3	1, 2015	December	31, 2014	December	31, 2013
Federal income taxes at 34%	\$ (7,148,607)	(34.00)% \$	8 (8,393,753)	(34.00)% \$	(3,663,089)	(34.00)%
Stock-based compensation	2,400,951	11.42%	2,135,414	8.65%	163,519	1.52%
Change in fair value of derivatives	(1,296,188)	(6.16)%	750,073	3.04%	1,420,993	13.19%
Other	-	-%	526,224	2.13%	-	-%
Change in valuation allowance	6,043,844	28.74%	4,982,042	20.18%	2,078,577	19.29%
					_	
Provision for income tax	\$ -	- \$	-	- \$	-	-

Note 10 - Subsequent Events

On January 4, 2016, the Company sold 40,656 shares of common stock for gross proceeds of \$130,156 as part of the Sales Agreement with MLV.

On January 22, 2016, 500 shares of restricted stock vested and the Company issued 500 shares of common stock to an employee.

On January 27, 2016, the Company issued 114,169 shares of common stock for the conversion of 164,580 warrants.

On February 16, 2016, the Company entered into a Service agreement with Medpace, Inc. where Medpace agreed to perform Phase 3 study of Iomab-B product. The study is scheduled to be finished in July 2018 with an estimated fees to Medpace of \$6.6 million.

On February 16, 2016, the Company issued 10,750 shares of common stock to a consultant with a fair value of \$19,350.

On February 22, 2016, 500 shares of restricted stock vested and the Company issued 500 shares of common stock to an employee.

On February 29, 2016 the Company sold 15,946 shares of common stock for gross proceeds of \$33,038 as part of the Sales Agreement with MLV.

On March 3, 2016, the Company sold 82,557 shares of common stock for gross proceeds of \$170,686 as part of the Sales Agreement with MLV.

On March 4, 2016, the Company sold 21,109 shares of common stock for gross proceeds of \$43,298 as part of the Sales Agreement with MLV.

On March 7, 2016, the Company sold 38,369 shares of common stock for gross proceeds of \$79,216 as part of the Sales Agreement with MLV.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.

None.

ITEM 9A. CONTROLS AND PROCEDURES.

Disclosure controls and procedures. The Company, under the supervision and with the participation of its management, including the Company's principal executive officer and principal financial and accounting officer, evaluated the effectiveness of the Company's "disclosure controls and procedures," as such term is defined in Rule 13a-15(e) under the Securities Act of 1934, as amended (the "Exchange Act"), as of the end of the period covered by this Annual Report on Form 10-K. Based on that evaluation, the Company's principal executive officer and principal financial and accounting officer has concluded that the Company's disclosure controls and procedures are effective as of December 31, 2015 to ensure that information required to be disclosed by the Company in reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms, and includes controls and procedures designed to ensure that information required to be disclosed by the Company in such reports is accumulated and communicated to the Company's management, including the Company's principal executive officer and principal financial and accounting officer, as appropriate, to allow timely decisions regarding required disclosure.

Management's Annual Report on Internal Control Over Financial Reporting. The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting. The Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

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

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

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2015. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework (2013). Based on our assessment and those criteria, management concluded that as of December 31, 2015, the Company's internal control over financial reporting was effective.

Changes in internal controls over financial reporting. There were no changes in the Company's internal controls over financial reporting that occurred during the fourth quarter of the fiscal year covered by this Annual Report on Form 10-K that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

ITEM 9B. OTHER INFORMATION.

Item 1.01 Entry into a Material Definitive Agreement.

On March 10, 2016 and effective as of Janaury 1, 2016, the Company entered into an Office Space License Agreement (the "License") with Relmada Therapeutics, Inc. for office space located at 275 Madison Avenue, 7 th Floor, New York, NY 10016. This new office space will house the Company's corporate headquarters. The term of the License is three years from the effective date, with an automatic renewal provision. The cost of the License is approximately \$16,620 per month (which includes approximately \$3,492 per month for the Company's share for capital improvements to the premises which payments are spread out over the remaining term of the base lease or 81 months), subject to customary escalations and adjustments.

The foregoing description of the License is qualified in its entirety by reference to the provisions of the License filed as Exhibit 10.57 to this Annual Report, which is incorporated by reference herein.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE.

Directors And Executive Officers

The names, positions and ages of our directors and executive officers as of March 10, 2016, are as follows:

Name	Age	Position
Sandesh Seth, MS, MBA	51	Executive Chairman
Kaushik J. Dave, PhD, MBA	54	President, Chief Executive Officer, Interim Chief Financial Officer and Director (Principal
		Executive Officer and Principal Financial and Accounting Officer)
Dragan Cicic, MD	51	Chief Operating Officer and Chief Medical Officer
David Nicholson, PhD	61	Director
Richard I. Steinhart	58	Director
Sergio Traversa, MBA	54	Director

Subject to the classified board provisions of our charter, all directors hold office until the next annual meeting of stockholders and the election and qualification of their successors. Officers are elected annually by the board of directors and serve at the discretion of the board.

Pursuant to the Company's charter, Mr. Traversa and Mr. Seth were appointed as directors of the Company by the former Series E preferred stock holders of Actinium Corporation. During 2011, Actinium Corporation raised \$6.2 million through an offering of 23,697,119 shares (pre-Actinium Share Exchange) of the 2011 Series E preferred shares and 5,924,285 warrants (pre-Actinium share exchange). In January 2012, the Actinium Corporation raised \$0.8 million through its final offering of the 2011 Series E preferred shares.

There are no other arrangements or understanding between any of our directors and any other persons pursuant to which they were selected as a director.

Background of Executive Officers and Directors

The principal occupations for the past five years (and, in some instances, for prior years) of each of our directors and executive officers are as follows:

Sandesh Seth, MS, MBA, Executive Chairman

Mr. Sandesh Seth has been our Director since March 2012, our Chairman of the Board since October 2013, and Executive Chairman since August 2014. Mr. Seth was affiliated with Laidlaw & Co. (UK) Ltd., a healthcare focused, investment banking and wealth management firm where he was Head of Healthcare Investment Banking. Mr. Seth is the Chairman of the Board of Relmada Therapeutics, Inc., a publicly listed, specialty pharmaceuticals company focused on pain therapeutics.

Mr. Seth has 20+ years of experience in investment banking (Cowen & Co.), equity research (Bear Stearns, Commonwealth Associates) and in the pharma industry (Pfizer, Warner-Lambert, SmithKline in strategic planning, business development and R&D project management). Mr. Seth has an MBA in Finance from New York University; an M.S. in the Pharmaceutical Sciences from the University of Oklahoma Health Center and a B.Sc. in Chemistry from Bombay University. He has published several scientific articles and was awarded the University Regents Award for Research Excellence at the University of Oklahoma. Mr. Seth was designated as Regulatory Affairs Certified (R.A.C.) by the Regulatory Affairs Professionals Society which signifies proficiency with U.S. FDA regulations.

That Mr. Seth has served in various business executive-level positions over the course of his career, has significant investment banking experience, has developed significant management and leadership skills and is well accustomed to interfacing with investors, analysts, auditors, C-level executives, and outside advisors, led us to conclude that Mr. Seth should serve as a director.

Kaushik J. Dave, PhD, MBA, Chief Executive Officer, Interim Chief Financial Officer and Director

Dr. Kaushik J. Dave has been our Chief Executive Officer and Director since September 2013, and our Interim Chief Financial Officer since February 2014. From March 2008 to September 2013, Dr. Dave was the Executive Vice President of Product Development for Antares Pharmaceuticals Inc. (Antares). As part of the core management team at Antares, he was instrumental in setting strategy, vision, product portfolio development and business development. Dr. Dave led the clinical and regulatory approval of AnturolTM and was also a key contributor to the change in company vision to combination products using Antares' medical device technology which resulted in a robust pipeline that included development and New Drug Application submission for Otrexup, which was approved on October 14, 2013. From January 2001 to June 2006, Dr. Dave was Vice President Product Development at Palatin Technologies Inc. where he obtained approval of NeutroSpecTM (a radiopharmaceutical monoclonal antibody product). From January 1997 to December 2000, Dr. Dave was employed at Schering-Plough Inc. and Merck & Co. Inc., responsible for steering the development of several pharmaceutical product development programs. Dr. Dave received his pharmacy degree from the University of Bath, UK and a Ph.D. in Pharmaceutical Chemistry from the University of Kansas. Dr. Dave also received an MBA from the Wharton School of the University of Pennsylvania.

As Chief Executive Officer of the Company, Dr. Dave is the most senior executive of the Company and as such provides our Board of Directors with the greatest insight into the Company's business and the challenges and material risks it faces. Dr. Dave has more than 23 years of healthcare industry experience and is especially qualified to understand the risks and leadership challenges facing a growing pharmaceutical company from a senior management and financial expertise perspective led us to conclude that Dr. Dave should serve as President, Chief Executive Officer and Director of the Company.

Dragan Cicic, MD, MBA, Chief Medical Officer

Dragan Cicic is the Chief Medical Officer of the Company. He joined the Company in 2005 and previously held the position of the CEO and prior to that of the Medical Director at Actinium. Dr. Cicic joined Actinium from the position of Project Director of QED Technologies Inc., a life sciences strategic consulting and transactional group focused on emerging biotech, pharmaceuticals and medical devices companies. Dr. Cicic prepared business and strategic plans on behalf of those clients and assisted them in raising funding. He also represented corporate and private investors in identifying acquisition and/or investment targets and negotiating, structuring and consummating deals. Prior to joining QED Technologies, Dr. Cicic was an investment banker with SG Cowen Securities.

Dr. Cicic graduated as a Medical Doctor from the School of Medicine at The Belgrade University, and received his MBA from Wharton School at The University of Pennsylvania. He was also a Nieman Fellow at Harvard University.

C. David Nicholson, BS, PhD, Director

C. David Nicholson has been a Director of the Company since 2008. Mr. Nicholson is also a member of our Audit Committee, Compensation Committee and Corporate Governance Committee. In August 2014, Mr. Nicholson joined Actavis plc and Forest Laboratories, Inc. as Senior Vice President, Actavis Global Brands R&D. From March 2012 to August 2014, Mr. Nicholson was on the Executive Committee of Bayer CropScience as Head of Research & Development responsible for the integration of the company's R&D activities into one global organization. Dr. Nicholson graduated in pharmacology, earning his B.Sc. from the University of Manchester (1975) and his Ph.D. from the University of Wales (1980). Between 1978 and 1988, Dr. Nicholson worked in the pharmaceutical industry for the British company Beecham-Wülfing in Gronau, Germany. The main emphasis of his activities as group leader in a multidisciplinary project group was the development of cardiovascular drugs.

From 1988-2007, Dr, Nicholson held various positions of increasing seniority in the UK, the Netherlands and the USA with Organon, a Business Unit of Akzo Nobel. Ultimately, he became Executive Vice President, Research & Development, and member of the Organon Executive Management Committee. He implemented change programs, leading to maximizing effectiveness in research & development, ensuring customer focus and the establishment of a competitive pipeline of innovative drugs. In 2007, Dr. Nicholson transferred to Schering-Plough, Kenilworth, New Jersey as Senior Vice President, responsible for Global Project Management and Drug Safety. From 2009 to December 2011, he was Vice President Licensing and Knowledge Management at Merck in Rahway, New Jersey, reporting to the President of Merck R&D. As an integration team member, David Nicholson played a role in the strategic mergers of Organon BioSciences, the human and animal health business of Dutch chemical giant Akzo-Nobel, and Schering-Plough in 2007 as well as of Schering-Plough and Merck in 2009.

That Dr. Nicholson brings over 25 years of pharmaceutical experience to our Board, having served in various pharmaceutical research and development executive-level positions over the course of his career, and that Dr. Nicholson has developed significant management and leadership skills relating to the pharmaceutical industry. and is well accustomed to interfacing with investors, analysts, auditors, outside advisors and governmental officials, led us to conclude that Dr. Nicholson should serve as a director.

Richard I. Steinhart, Director

Mr. Steinhart has served as our Director and Chairman of the Audit Committee since November 2013. Mr. Steinhart is also a member of our Compensation Committee and Corporate Governance Committee. Since March 2014, Mr. Steinhart has been a Member of the Board of Directors of Atossa Genetics, Inc. where he is Chairman of the Audit Committee and a member of the Compensation Committee.

Mr. Steinhart is a Vice President and CFO at Remedy Pharmaceuticals, a privately-held, clinical stage pharmaceutical company, a role he commenced in October 2015. From January 2014 through September 2015 Mr. Steinhart had been a financial and strategic consultant to the biotechnology and medical device industries. From April 2006 through December 2013, Mr. Steinhart was employed by MELA Sciences, Inc., as their Vice President, Finance and Chief Financial Officer, Treasurer and Secretary. In April 2012, Mr. Steinhart received a promotion to Sr. Vice President, Finance and Chief Financial Officer. From May 1992 until joining MELA Sciences, Mr. Steinhart was a Managing Director of Forest Street Capital/SAE Ventures, a boutique investment banking, venture capital, and management consulting firm focused on healthcare and technology companies. Prior to Forest Street Capital/SAE Ventures, he was Vice President and Chief Financial Officer of Emisphere Technologies, Inc. Mr. Steinhart's other experience includes seven years at CW Group, Inc., a venture capital firm focused on medical technology and biopharmaceutical companies, where he was a General Partner and Chief Financial Officer. Mr. Steinhart began his career at Price Waterhouse, now known as PricewaterhouseCoopers. He holds BBA and MBA degrees from Pace University and is a Certified Public Accountant (inactive).

That Mr. Steinhart brings nearly 30 years of financial experience to our Board, having served in various financial executive-level positions over the course of his career, and that Mr. Steinhart is a certified public accountant led us to conclude that Mr. Steinhart should serve as a director and chair the audit committee.

Sergio Traversa, Director

Mr. Traversa has been a Director of the Company since August, 2012. Mr. Traversa is also a member of our, Audit Committee, Compensation Committee and Corporate Governance Committee. Mr. Traversa is also the Chief Executive Officer and a Director of Relmada Therapeutics, Inc. Previously, he was the co-founder and CEO of Medeor Inc. a spinoff pharmaceutical company from Cornell University. Mr. Traversa has over 25 years of experience in the healthcare sector in the United States and Europe, ranging from management positions in the pharmaceutical industry to investing and strategic advisory roles. He has held financial analyst, portfolio management and strategic advisory positions at large United States investment firms specializing in healthcare, including Mehta and Isaly and Mehta partners, ING Barings, Merlin BioMed and Rx Capital. Mr. Traversa was a founding partner of Ardana Capital, a pharmaceutical and biotechnology investment advisory firm. In Europe, he held the position of Area Manager for Southern Europe (Italy, Spain, Greece and Portugal) of Therakos Inc., a cancer and immunology division of Johnson & Johnson. Prior to Therakos, Mr. Traversa was at Eli Lilly, where he served as Marketing Manager of the Hospital Business Unit. He was also a member of the CNS team at Eli Lilly, where he participated in the launch of Prozac and the early development of Zyprexa and Cymbalta. Mr. Traversa started his career as a sales representative at Farmitalia Carlo Erba, the largest pharmaceutical company in Italy later sold to Pharmacia and now part of Pfizer. Mr. Traversa holds a Laurea degree in Pharmacy from the University of Turin (Italy) and an MBA in Finance and International Business from the New York University Leonard Stern School of Business.

Mr. Traversa is a senior executive in the pharmaceutical industry and as such provides our Board of Directors with great insight into the Company's business and the challenges and material risks it faces. That Mr. Traversa has more than 25 years of healthcare and financial industry experience in the United States and Europe and is especially qualified to understand the risks and leadership challenges facing a growing pharmaceutical company from a senior management and financial expertise perspective led us to conclude that Mr. Traversa should serve as a director.

Corporate Governance

The Board of Directors oversees our business affairs and monitors the performance of management. In accordance with our corporate governance principles, the Board of Directors does not involve itself in day-to-day operations. The directors keep themselves informed through discussions with the Chief Executive Officer, the Executive Chairman, and other key executives and by reading the reports and other materials that we send them and by participating in Board of Directors and committee meetings.

Term of Office

Our directors are divided into three classes, designated Class I, Class II and Class III. Class I consists of two directors, Class II consists of two directors, and Class III consists of the chief executive officer.

The term of each director is set forth below or until their successors are duly elected:

Director	Class	Term (from 2015 Annual Meeting)
Kaushik Dave	Class III	12 months
David Nicholson	Class I	24 months
Sandesh Seth	Class II	36 months
Sergio Traversa	Class II	36 months
Richard Steinhart	Class I	24 months

Notwithstanding the foregoing, each director shall serve until his successor is duly elected and qualified, or until his or her retirement, death, resignation or removal.

Director Independence

We use the definition of "independence" of the NYSE MKT to make this determination. NYSE MKT corporate governance rule Sec. 803(A)(2) provides that an "independent director" means a person other than an executive officer or employee of the company. No director qualifies as independent unless the issuer's board of directors affirmatively determines that the director does not have a relationship that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director. The following is a non-exclusive list of persons who shall not be considered independent under NYSE MKT rules:

- a director who is, or during the past three years was, employed by the company, other than prior employment as an interim executive officer (provided the interim employment did not last longer than one year);
- a director who accepted or has an immediate family member who accepted any compensation from the company in excess of \$120,000 during any period of twelve consecutive months within the three years preceding the determination of independence, other than the following:
 - (i) compensation for board or board committee service,
 - (ii) compensation paid to an immediate family member who is an employee (other than an executive officer) of the company,
 - (iii) compensation received for former service as an interim executive officer (provided the interim employment did not last longer than one year), or
 - (iv) benefits under a tax-qualified retirement plan, or non-discretionary compensation;
- a director who is an immediate family member of an individual who is, or at any time during the past three years was, employed by the company as an executive officer;
- a director who is, or has an immediate family member who is, a partner in, or a controlling shareholder or an executive officer of, any organization to which the company made, or from which the company received, payments (other than those arising solely from investments in the company's securities or payments under non-discretionary charitable contribution matching programs) that exceed 5% of the organization's consolidated gross revenues for that year, or \$200,000, whichever is more, in any of the most recent three fiscal years;
- a director who is, or has an immediate family member who is, employed as an executive officer of another entity where at any
 time during the most recent three fiscal years any of the issuer's executive officers serve on the compensation committee of
 such other entity; or
- a director who is, or has an immediate family member who is, a current partner of the company's outside auditor, or was a partner or employee of the company's outside auditor who worked on the company's audit at any time during any of the past three years.

Our Common Stock is currently listed on the NYSE MKT exchange under the ticker symbol "ATNM". Under the abovementioned NYSE MKT director independence rules David Nicholson, Richard Steinhart and Sergio Traversa are independent directors of the Company.

Chief Executive Officer

Employment Agreement

Effective September 16, 2013, and amended and restated on August 6, 2015, the Company and Dr. Kaushik J. Dave entered into an agreement (the "Employment Agreement"), to employ Dr. Dave as the Company's Chief Executive Officer. Dr. Dave shall have such responsibilities, duties and authority as are assigned to him by the Board, or its designee. These responsibilities shall include implementation of the overall direction of the Company as set by the Board, including, planning, corporate policies, research and development, staffing, finance and operations. Dr. Dave shall perform such other duties and shall have authority consistent with his position as may be from time to time specified by the Board and subject to the discretion of the Board. Dr. Dave reports directly to the Board. Dr. Dave also agreed to devote his best efforts and substantially all of his business time to advance the interests of the Company and to discharge adequately his duties under the Employment Agreement. Dr. Dave may hold up to two board seats on for-profit and not-for-profit boards that do not represent a conflict with the Company and subject to Board approval after review of the time commitment involved. Pursuant to the August 2015 amendment and restatement of Dr. Dave's agreement, among other things, the agreement provides enhance severance benefits, including in the event of a change of control of the Company (as summarized below), and provides for immediate vesting of options in accordance with the amended Stock Plan and Equity Plan. The agreement also changed Dr. Dave's title from "President and Chief Executive Officer" to "Chief Executive Officer".

Pursuant to the Employment Agreement, Dr. Dave is entitled to the following compensation and benefits:

- A base salary at an annual rate of \$350,000.
- Upon the six month anniversary of the start date, the Board will review Dr. Dave's base salary with the help of an independent compensation consultant to adjust the base salary to be competitively aligned to a range between the 25th (twenty-fifth) and 75th (seventy-fifth) percentile of the relevant market data of CEO positions of similarly situated publicly traded Biotech companies. The Board shall review the amount of the base salary and performance bonus, and shall determine the appropriate adjustments to each component of Dr. Dave's compensation within 60 days of the start of each calendar year.
- Dr. Dave shall be entitled to participate in an executive bonus program, which shall be established by the Board pursuant to which the Board shall award bonuses to Dr. Dave, based upon the achievement of written individual and corporate objectives such as the Board shall determine. Upon the attainment of such performance objectives, Dr. Dave shall be entitled to a cash bonus in an amount to be determined by the Board with a target of forty percent (40%) of the base salary. At least thirty (30) days before each subsequent calendar year, the Board shall establish written individual and corporate performance objectives for such calendar year and the amount of the performance bonus payable upon the attainment of such objectives. Within sixty (60) days after the end of each calendar year, the Board shall determine the amount of any performance bonus payable thereunder. Any such performance bonus shall be due and payable within ninety (90) days after the end of the calendar year to which it relates.
- The Board has agreed to grant to Dr. Dave an option to purchase common shares of the Company and restricted stock (the "Grant"). The Grant will consist of (A) an option grant to purchase 675,000 common shares of the Company; (B) 125,000 shares of restricted and (C) 100,000 shares of restricted stock as a sign-on bonus of which fifty percent will vest at the one year anniversary of the start date upon starting work. An additional twenty-five percent each will vest at eighteen months and twenty-four months after the start date.
- Stock Options. Such options will have an exercise price equal to the prior day closing price of the Company's common stock which is equal to fair market value as determined by the Board on the date of the grant (the "Grant date"). The Grant Date shall occur no later than 90 days from the start date.
- Restricted Stock Grant (excluding the sign-on bonus). One third (33.33%) of the restricted stock was granted at the closing of the Company's private placement in January 2014, and shall vest per the vesting schedule below. The remaining two thirds (66.66%) of the restricted stock shall be granted upon the treatment of the first patient in 2014 for the Iomab-B trial and subject to the vesting schedule below.
- Vesting Schedule. Twenty-eight percent (28%) of the initial options or restricted stock granted shall vest twelve months after the date of grant and two percent (2%) of the remainder shall vest each month thereafter until fully vested. Such additional options or restricted stock will have an exercise price per share which is equal to fair market value as determined by the Board on the date of the grant. Two percent (2%) of such additional options or stock shall vest each month thereafter until fully vested. The term of all options granted under this Agreement will be for 10 years from the date of grant, subject to Dr. Dave's continuing service with the Company.
- Dr. Dave is also eligible to participate in the Company's benefit plans that are generally provided for executive employees.
- The employment agreement also contains a non-solicitation provision that provides that during the term of employment and for a period of 24 months following the cessation of employment with the company you Dr. Dave shall not directly or indirectly solicit, induce, recruit or encourage any of the Company's employees or consultants to terminate their relationship with the Company, or attempt any of the foregoing, either for himself or any other person or entity.

- If the Company terminates Dr. Dave's employment other than for cause or if he resigns for good reason, Dr. Dave shall be entitled to the following:
 - (i) a single lump sum payment equal to twelve (12) months of base salary compensation (at the rate in effect as of the date of termination);
 - (ii) continued health benefits for the 12-month period beginning on the date of termination; and
 - (iii) All outstanding equity awards granted to Dr. Dave under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".
- If the Company terminates Dr. Dave's employment other than for cause or if he resigns for good reason, in any case during the 12-month period beginning on the date of a change in control Dr. Dave shall be entitled to the following:
 - (i) a single lump sum payment equal to twenty-four (24) months of Dr. Dave's compensation (at the rate in effect as of the date of termination);
 - (ii) continued health benefits for the 24-month period beginning on the date of termination; and
 - (iii) All outstanding equity awards granted to Dr. Dave under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

CEO Agreement

Effective April 15, 2015 (the "Effective Date"), the Company and Dr. Dave entered into an agreement whereby the Company agreed to make certain payments, cancel certain restricted stock previously granted Dr. Dave, and make a new option grant to Dr. Dave. Pursuant to the terms of the agreement he Company agreed to pay to Dr. Dave (i) \$166,825 on or before the Effective Date; (ii) \$22,021 on or before the Effective Date; (iii) \$22,021 by June 30, 2015; (iv) \$22,021 by September 30, 2015; (v) \$22,021 by December 31, 2015; (vi) \$46,490 by April 15, 2016 so long as Dr. Dave is an employee of the Company on such date; and (vii) \$52,103 by December 31, 2016, so long as Dr. Dave is an employee of the Company satisfied however, that if Dr. Dave is not employed by the Company (A) on April 15, 2016 then Dr. Dave shall repay to the Company \$88,084 (which represents the payments made on April 15, 2015, June 30, 2015, September 30, 2015 and December 31, 2015, of \$20,021 each), and (B) on December 31, 2016 then Dr. Dave shall repay to the Company \$46,490 (which represents the payment made on April 15, 2016). In addition, until December 31, 2016, Dr. Dave will not, without the prior written consent of the Company, directly or indirectly, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant for the sale of, or otherwise dispose of or transfer 25,000 shares of common stock of the Company, which such shares vested on September 16, 2014. The parties also agreed that the 68,000 shares of restricted stock previously granted to Dr. Dave on February 21, 2014, and are unvested, shall be cancelled and that the Company shall grant to Dr. Dave 82,128 options which shall vest according to milestones as set forth in the agreement.

Advice of Compensation Consultant

In 2015, the Compensation Committee engaged StreeterWyatt Governance, LLC, a compensation consultant, to advise us on the compensation provided to our Chief Executive Officer, Dr. Dave, and determine what actions, if any, were appropriate regarding future executive compensation arrangements.

In developing their assessment, the consultant considered pay practices of companies in similar industries and of similar size. Taking into consideration the results of the analysis in the compensation report, the Compensation Committee recommended to the Board that the target compensation to Dr. Dave should generally be positioned at the median of comparably sized companies in similar industries. The consultant further recommended components and terms of each components of Dr. Dave's future compensation. Based on the analysis and recommendations, the Compensation Committee adopted and approved Dr. Dave's Employment Agreement as described above under "Chief Executive Officer's Compensation".

Executive Chairman Agreement

In an agreement dated March 11, 2015, effective August 11, 2014 and amended and restated on August 6, 2015, our Chairman of the Board entered into a consulting agreement with the Company to serve as Executive Chairman of the Company. The Executive Chairman will be paid an annual consulting fee of \$350,000. During the term of this agreement, the annual consulting fee shall be maintained at least at the same amount as the annual compensation of the Chief Executive Officer of the Company. The Executive Chairman is also entitled to participate in a Company bonus program, which shall be established by the Board pursuant to which the Board shall award bonuses to the consultant, based upon the achievement of written individual and corporate objectives such as the Board shall determine. During the term of the agreement, the performance cash bonus shall be at least at the same amount as the performance cash bonus and other compensation paid to the Chief Executive Officer of the Company. On September 23, 2014, the Board also granted to the Executive Chairman an option to purchase 280,000 common shares of the Company at an exercise price of \$6.13 per share. The options vest at the rate of 2% of the grant each month from the grant Date until fully vested in accordance with the provisions of the Company's Amended and Restated 2013 Stock Plan. The Executive Chairman shall also be awarded stock option and/or restricted stock grants at least at the same amount as such stock option and/or restricted stock that is granted to the Chief Executive Officer of the Company. On August 6, 2015, Mr. Seth's agreement was amended and restated. Among other things, the amendment included severance benefits, including in the event of a change of control of the Company, and to provide for immediate vesting of options in accordance with the Company's amended Stock Plan and Equity Plan.

If the Company terminates the consulting arrangement other than for cause or if Mr. Seth resigns for good reason, Mr. Seth shall be entitled to the following:

- (i) a single lump sum payment equal to twenty-four (24) months of Mr. Seth's compensation (at the rate in effect as of the date of termination);
- (ii) continued health benefits for the 24-month period beginning on the date of termination; and
- (iii) All outstanding equity awards granted to Mr. Seth under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

If the Company terminates Mr. Seth's consulting arrangement other than for cause or if Mr. Seth resigns for good reason, in any case during the 12-month period beginning on the date of a change in control, Mr. Seth shall be entitled to the following:

- (i) a single lump sum payment equal to thirty (30) months of Mr. Seth's compensation (at the rate in effect as of the date of termination);
- (ii) continued health benefits for the 30-month period beginning on the date of termination; and
- (iii) All outstanding equity awards granted to Mr. Seth under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

Chief Medical Officer Agreement

On January 2, 2006, Actinium Corporation entered into an employment agreement with Dragan Cicic, as our Chief Operating Officer and Chief Medical Officer. The term of the employment agreement is one year; provided that the term shall be automatically extended for successive one year periods thereafter, unless, no later than 60 days prior to the expiration of any successive one-year renewal term, either party thereto provides the other party written notice of its desire not to extend the term. Actinium agreed to pay a base salary of \$144,758 per annum during the term with an annual percentage increase of not less than an amount equal to the aggregate preceding 12 months annual percentage increase of the U.S. Department of Labor Consumer Price Index for All Urban Consumers (CPI-U) for the New York area. Dr. Cicic is also entitled to participate in any incentive compensation or bonus program which is instituted or maintained for company executives generally during the term of the agreement. In August 2014, the Company increased Dr. Cicic's base salary to \$275,000 per year. In August 2015, Dr. Cicic agreement was amended. Pursuant to the amendment, Dr. Cicic's title was changed to Chief Medical Officer from Chief Operating Officer and Chief Medical Officer.

Executive Chairman

In August 2014, our Board created the office of Executive Chairman of the Company and appointed Sandesh Seth, our Chairman of the Board, as Executive Chairman of our Company.

As Executive Chairman of our Company, Mr. Seth acts as an officer and consultant and, as such, performs his duties subject in all instances to the oversight of our board of directors and the power of our board of directors to approve all applicable corporation actions (which powers shall not be vested in the office of Executive Chairman). The Executive Chairman is not an "executive officer" (as defined in SEC Rule 3b-7) of our Company as the role of the Executive Chairman by design is not an officer who performs a policy making function for our Company. Rather, the Executive Chairman serves as a conduit between our board and our executive management team and is available to act as an advisor and consultant to our executive management team, who are responsible for development and implementation of our corporate policies under the supervision of our board of directors. In 2015, Mr. Seth received the following compensation for his service as Executive Chairman: \$353,000 in cash compensation, \$157,000 bonus, and \$389,285 in stock awards.

Subject to such other roles, duties and projects as may (consistent with the terms and provisions of our Amended and Restated Bylaws and the resolutions of our board that formed the office of Executive Chairman) be assigned by our board to the Executive Chairman, the primary responsibilities of the Executive Chairman are as follows:

- (i) Chair annual and special Board meetings and annual stockholder meetings and, subject to availability, attend meetings of the committees of the Board;
- (ii) Provide overall Board leadership and establish guiding principles for the Board;
- (iii) Manage the affairs of the Board and facilitate Board action in such a way that strategic and policy decisions are fully discussed, debated and decided by the Board;
- (iv) In cooperation with the President, and Chief Executive Officer, and other Company officers as appropriate or selected by the Executive Chairman/Board, ensure that our strategic orientation is defined and communicated to the Board for its approval and that all material issues are dealt with by the Board in a timely manner;
- (v) Ensure that the Board has efficient communication channels regarding all material issues concerning the business and see to it that directors are informed about these issues;
- (vi) Act as a representative of the Board and consult with Board members outside the regularly scheduled meetings of the Board and of Board committees;
- (vii) Meet and confer as often as required with our President, and Chief Executive Officer and executive management to ensure that there is efficient communication between the Executive Chairman, the President, and Chief Executive Officer, other executive management and Board members;
- (viii) Offer advice and consultation to the President, and Chief Executive Officer and executive management on the overall management of the business and affairs of our company as well as specific matters upon the request of the President, and Chief Executive Officer and or the Board;
- (ix) In consultation and partnership with the President, Chief Executive Officer, the Executive Chairman may act as our representative with business partners of our company; and
- (x) At the request of the Board or the President, and Chief Executive Officer the Executive Chairman may be placed in charge of special corporate strategic initiatives or projects.

Board Leadership Structure

Our Board has a policy that calls for the role of Chairman of the Board and Chief Executive Officer (CEO) to be separate, as it believes that the most effective leadership structure for us at this time is not to have these roles combined. Dr. Kaushik J. Dave serves as our CEO and Sandesh Seth is our Chairman of the Board who serves as the Executive Chairman. We believe this structure of having a separate CEO and Chairman provides proper oversight of our operations.

Board of Directors Meetings and Attendance

During the fiscal year 2015, the Board of Directors held 28 meetings. Each member of our Board was present at eighty-five (85%) percent or more of the Board meetings held. One action was approved by unanimous written consent. It is our policy that directors should make every effort to attend the annual meeting of stockholders, and each of our directors. Sandesh Seth, Kaushik Dave, David Nicholson, Richard Steinhart and Sergio Traversa, attended the annual meeting of stockholders in 2015.

Committees of the Board of Directors

Our board of directors has formed three standing committees: audit, compensation and corporate governance. Actions taken by our committees are reported to the full board. Each of our committees has a charter and each charter is posted on our website.

Audit Committee	Compensation Committee	Corporate Governance Committee
Richard I. Steinhart*	Dr. David Nicholson*	Sergio Traversa*
Dr. David Nicholson	Richard I. Steinhart	David Nicholson
Sergio Traversa	Sergio Traversa	Richard I. Steinhart

^{*} Indicates committee chair

Audit Committee

Our audit committee, which currently consists of three directors, provides assistance to our board in fulfilling its legal and fiduciary obligations with respect to matters involving the accounting, financial reporting, internal control and compliance functions of the company. The board of directors has determined that Mr. Steinhart is an "audit committee financial expert" as defined in Item 407(d)(5)(ii) of Regulation S-K. Our audit committee employs an independent registered public accounting firm to audit the financial statements of the company and perform other assigned duties. Further, our audit committee provides general oversight with respect to the accounting principles employed in financial reporting and the adequacy of our internal controls. In discharging its responsibilities, our audit committee may rely on the reports, findings and representations of the company's auditors, legal counsel, and responsible officers. Our board has determined that all members of the audit committee are financially literate within the meaning of SEC rules and under the current listing standards of the NYSE MKT. Richard I. Steinhart is the chairman of the audit committee.

Under NYSE MKT rules (Section 803(b)(2)(b) of the NYSE MKT Company Guide), one director who is not independent under general audit committee purposes, but who satisfies the requirements of Rule 10A-3 under the Securities Exchange Act of 1934, and is not a current officer or employee, may be appointed to the audit committee, if the board, under exceptional and limited circumstances, determines that membership on the committee by the individual is required by the best interests of the issuer and its shareholders. In August 2015, the board appointed Mr. Traversa to the audit committee under this exception. The board has determined that Mr. Traversa's appointment to the audit committee is in the best interests of the Company and its shareholders given his financial experience and knowledge of public companies. Mr. Traversa may not under this exception serve in excess for two consecutive years and may not chair the audit committee.

Compensation Committee

Our compensation committee, which currently consists of three directors, establishes executive compensation policies consistent with the company's objectives and stockholder interests. Our compensation committee also reviews the performance of our executive officers and establishes, adjusts and awards compensation, including incentive-based compensation, as more fully discussed below. In addition, our compensation committee generally is responsible for:

- establishing and periodically reviewing our compensation philosophy and the adequacy of compensation plans and programs for our directors, executive officers and other employees;
- overseeing our compensation plans, including the establishment of performance goals under the company's incentive compensation arrangements and the review of performance against those goals in determining incentive award payouts;
- overseeing our executive employment contracts, special retirement benefits, severance, change in control arrangements and/or similar plans;
- acting as administrator of any company stock option plans; and
- overseeing the outside consultant, if any, engaged by the compensation committee.

Our compensation committee periodically reviews the compensation paid to our non-employee directors and the principles upon which their compensation is determined. The compensation committee also periodically reports to the board on how our non-employee director compensation practices compare with those of other similarly situated public corporations and, if the compensation committee deems it appropriate, recommends changes to our director compensation practices to our board for approval.

Outside consulting firms retained by our compensation committee and management also will, if requested, provide assistance to the compensation committee in making its compensation-related decisions.

Corporate Governance Committee

Corporate Governance Committee, which currently consists of three directors, monitors our corporate governance system.

Family Relationships

There are no family relationships among any of our officers or directors.

Involvement in Certain Legal Proceedings

To our knowledge, none of our current directors or executive officers has, during the past ten years:

- been convicted in a criminal proceeding or been subject to a pending criminal proceeding (excluding traffic violations and other minor offenses);
- had any bankruptcy petition filed by or against the business or property of the person, or of any partnership, corporation or business association of which he was a general partner or executive officer, either at the time of the bankruptcy filing or within two years prior to that time;
- been subject to any order, judgment, or decree, not subsequently reversed, suspended or vacated, of any court of competent
 jurisdiction or federal or state authority, permanently or temporarily enjoining, barring, suspending or otherwise limiting, his
 involvement in any type of business, securities, futures, commodities, investment, banking, savings and loan, or insurance
 activities, or to be associated with persons engaged in any such activity;
- been found by a court of competent jurisdiction in a civil action or by the SEC or the Commodity Futures Trading Commission
 to have violated a federal or state securities or commodities law, and the judgment has not been reversed, suspended, or
 vacated;
- been the subject of, or a party to, any federal or state judicial or administrative order, judgment, decree, or finding, not subsequently reversed, suspended or vacated (not including any settlement of a civil proceeding among private litigants), relating to an alleged violation of any federal or state securities or commodities law or regulation, any law or regulation respecting financial institutions or insurance companies including, but not limited to, a temporary or permanent injunction, order of disgorgement or restitution, civil money penalty or temporary or permanent cease-and-desist order, or removal or prohibition order, or any law or regulation prohibiting mail or wire fraud or fraud in connection with any business entity; or
- been the subject of, or a party to, any sanction or order, not subsequently reversed, suspended or vacated, of any self-regulatory organization (as defined in Section 3(a)(26) of the Exchange Act), any registered entity (as defined in Section 1(a)(29) of the Commodity Exchange Act), or any equivalent exchange, association, entity or organization that has disciplinary authority over its members or persons associated with a member.

Except as set forth in our discussion below in "Certain Relationships and Related Transactions," none of our directors or executive officers has been involved in any transactions with us or any of our directors, executive officers, affiliates or associates which are required to be disclosed pursuant to the rules and regulations of the SEC.

Code of Ethics

The Company has adopted a code of ethics, a copy of which is attached as Exhibit 14.1 to the Form 8-K filed on January 2, 2013.

Compliance with Section 16 (a) of the Exchange Act

Under Section 16(a) of the Exchange Act, our directors and certain of our officers, and persons holding more than 10 percent of our common stock are required to file forms reporting their beneficial ownership of our common stock and subsequent changes in that ownership with the United States Securities and Exchange Commission.

Based solely upon a review of copies of such forms filed on Forms 3, 4, and 5, and amendments thereto furnished to us, we believe that as of December 31, 2015, our executive officers, directors and greater than 10 percent beneficial owners have complied on a timely basis with all Section 16(a) filing requirements.

Compensation Discussion and Analysis

The Compensation Committee of our board of directors has the responsibility to review, determine and approve the compensation for our executive officers. Further, the Compensation Committee oversees our overall compensation strategy, including compensation policies, plans and programs that cover all employees. In 2013, our Stockholders voted on an advisory basis with respect to our compensation program for named executive officers. Of the votes cast (excluding abstentions and broker non-votes), 94.1% were cast in support of the program. In light of this, in reviewing the executive compensation program for 2015, the Compensation Committee decided to retain the general overall program design, which ties a significant portion of the executives' pay closely with our performance. In the future, the Compensation Committee will continue to consider the executive compensation program in light of changing circumstances and Stockholder feedback.

We currently employ two executive officers, each of whom serves as a "Named Executive Officer" (or NEO) for purposes of SEC reporting: (1) Kaushik J. Dave., our Chief Executive Officer (who we refer to in this Compensation Discussion and Analysis as our CEO); and (2) Dragan Cicic, our Chief Scientific Officer.

This Compensation Discussion and Analysis sets forth a discussion of the compensation for our NEOs as well as a discussion of our philosophies underlying the compensation for our NEOs and our employees generally.

Objectives of Our Compensation Program

The Compensation Committee's philosophy seeks to align the interests of our stockholders, officers and employees by tying compensation to individual and company performance, both directly in the form of salary or annual cash incentive payments, and indirectly in the form of equity awards. The objectives of our compensation program enhance our ability to:

- attract and retain qualified and talented individuals; and
- provide reasonable and appropriate incentives and rewards to our team for building long-term value within our company, in each case in a manner comparable to companies similar to ours.

In addition, we strive to be competitive with other similarly situated companies in our industry. The process of developing pharmaceutical products and bringing those products to market is a long-term proposition and outcomes may not be measurable for several years. Therefore, in order to build long-term value for our company and its stockholders, and in order to achieve our business objectives, we believe that we must compensate our officers and employees in a competitive and fair manner that reflects current company activities but also reflects contributions to building long-term value.

We utilize the services of StreeterWyatt Governance LLC to review compensation programs of peer companies in order to assist the Compensation Committee in determining the compensation levels for our NEOs, as well as for other employees of our company. StreeterWyatt is a recognized independent consulting company and services clients throughout the United States.

Elements of Our Compensation Program and Why We Chose Each

Main Compensation Components

Our company-wide compensation program, including for our NEOs, is broken down into three main components: base salary, performance cash bonuses and potential long-term compensation in the form of stock options or restricted stock awards. We believe these three components constitute the minimum essential elements of a competitive compensation package in our industry.

Salary

Base salary is used to recognize the experience, skills, knowledge and responsibilities required of our NEOs as well as recognizing the competitive nature of the biopharmaceutical industry. This is determined partially by evaluating our peer companies as well as the degree of responsibility and experience levels of our NEOs and their overall contributions to our company. Base salary is one component of the compensation package for NEOs; the other components being cash bonuses, annual equity grants, and company benefit programs. Base salary is determined in advance whereas the other components of compensation are awarded in varying degrees following an assessment of the performance of a NEO. This approach to compensation reflects the philosophy of our board of directors and its Compensation Committee to emphasize and reward, on an annual basis, performance levels achieved by our NEOs.

Performance Bonus Plan

We have a performance bonus plan under which bonuses are paid to our NEOs based on achievement of company performance goals and objectives established by the Compensation Committee and/or our board of directors as well as on individual performance. The bonus program is discretionary and is intended to: (i) strengthen the connection between individual compensation and our company's achievements; (ii) encourage teamwork among all disciplines within our company; (iii) reinforce our pay-for-performance philosophy by awarding higher bonuses to higher performing employees; and (iv) help ensure that our cash compensation is competitive. Depending on the cash position of the company, the Compensation Committee and our board of directors have the discretion to not pay cash bonuses in order that we may conserve cash and support ongoing development programs and commercialization efforts. Regardless of our cash position, we consistently grant annual merit-based stock options to continue incentivizing both our senior management and our employees.

Based on their employment agreements, each NEO is assigned a target payout under the performance bonus plan, expressed as a percentage of base salary for the year. Actual payouts under the performance bonus plan are based on the achievement of corporate performance goals and an assessment of individual performance, each of which is separately weighted as a component of such officer's target payout. For the NEOs, the corporate goals receive the highest weighting in order to ensure that the bonus system for our management team is closely tied to our corporate performance. Each employee also has specific individual goals and objectives as well that are tied to the overall corporate goals. For employees, mid-year and end-of-year progress is reviewed with the employees' managers.

Equity Incentive Compensation

We view long-term compensation, currently in the form of stock options and restricted stock generally vesting in annual increments over four years, as a tool to align the interests of our NEOs and employees generally with the creation of stockholder value, to motivate our employees to achieve and exceed corporate and individual objectives and to encourage them to remain employed by the company. While cash compensation is a significant component of employees' overall compensation, the Compensation Committee and our board of directors (as well as our NEOs) believe that the driving force of any employee working in a small biotechnology company should be strong equity participation. We believe that this not only creates the potential for substantial longer term corporate value but also serves to motivate employees and retain their loyalty and commitment with appropriate personal compensation.

Other Compensation

In addition to the main components of compensation outlined above, we also provide contractual severance and/or change in control benefits to our Executive Chairman and CEO. The change in control benefits for all applicable persons have a "double trigger." A double-trigger means that the executive officers will receive the change in control benefits described in the agreements only if there is both (1) a Change in Control of our company (as defined in the agreements) and (2) a termination by us of the applicable person's employment "without cause" or a resignation by the applicable persons for "good reason" (as defined in the agreements) within a specified time period prior to or following the Change in Control. We believe this double trigger requirement creates the potential to maximize stockholder value because it prevents an unintended windfall to management as no benefits are triggered solely in the event of a Change in Control while providing appropriate incentives to act in furtherance of a change in control that may be in the best interests of the stockholders. We believe these severance or change in control benefits are important elements of our compensation program that assist us in retaining talented individuals at the executive and senior managerial levels and that these arrangements help to promote stability and continuity of our executives and senior management team. Further, we believe that the interests of our stockholders will be best served if the interests of these members of our management are aligned with theirs. We believe that providing change in control benefits lessens or eliminates any potential reluctance of members of our management to pursue potential change in control transactions that may be in the best interests of the stockholders. We also believe that it is important to provide severance benefits to members of our management, to promote stability and focus on the job at hand.

We also provide benefits to the executive officers that are generally available to all regular full-time employees of our company, including our medical and dental insurance, and a 401(k) plan. At this time, we do not provide any perquisites to any of our NEOs. Further, we do not have deferred compensation plans, pension arrangements or post-retirement health coverage for our executive officers or employees. All of our employees not specifically under contract are "at-will" employees, which means that their employment can be terminated at any time for any reason by either us or the employee. Our Executive Chairman and CEO have employment agreements that provide lump sum compensation in the event of their termination without cause or, under certain circumstances, upon a Change of Control.

Determination of Compensation Amounts

A number of factors impact the determination of compensation amounts for our NEOs, including the individual's role in the company and individual performance, length of service with the company, competition for talent, individual compensation package, assessments of internal pay equity and industry data. Stock price performance has generally not been a factor in determining annual compensation because the price of our common stock is subject to a variety of factors outside of our control.

Industry Survey Data

In collaboration with StreeterWyatt, we establish and maintain a list of peer companies to best assure ourselves that we are compensating our executives on a fair and reasonable basis, as set forth above under the heading "Objectives of our Compensation Program." We also utilize StreeterWyatt-prepared data for below-executive level personnel, which data focuses on similarly-sized bio-tech companies. The availability of peer data is used by the Compensation Committee strictly as a guide in determining compensation levels with regard to salaries, cash bonuses and performance related annual equity grants to all employees. However, the availability of this data does not imply that the Compensation Committee is under any obligation to exactly follow peer companies in compensation matters.

Determination of Base Salaries

As a guideline for NEO base salary, we perform formal benchmarks against respective comparable positions in our established peer group. We adjust salaries based on our assessment of our NEOs' levels of responsibility, experience, overall compensation structure and individual performance. The Compensation Committee is not obliged to raise salaries purely on the availability of data. Merit-based increases to salaries of executive officers are based on our assessment of individual performance and the relationship to applicable salary ranges. Cost of living adjustments may also be a part of that assessment.

Performance Bonus Plan

Concurrently with the beginning of each calendar year, preliminary corporate goals that reflect our business priorities for the coming year are prepared by the CEO with input from the other executive officers. These goals are weighted by relative importance. The draft goals and proposed weightings are presented to the Compensation Committee and the Board and discussed, revised as necessary, and then approved by our board of directors. The Compensation Committee then reviews the final goals and their weightings to determine and confirm their appropriateness for use as performance measurements for purposes of the bonus program. The goals and/or weightings may be re-visited during the year and potentially restated in the event of significant changes in corporate strategy or the occurrence of significant corporate events. Following the agreement of our board of directors on the corporate objectives, the goals are then shared with all employees in a formal meeting(s), and are reviewed periodically throughout the year.

Determination of Equity Incentive Compensation

To assist us in assessing the reasonableness of our equity grant amounts, we have reviewed StreeterWyatt supplied information. Such information included equity data from a cross-section of similar companies in our industry.

Equity Grant Practices

All stock options and/or restricted stock granted to the NEOs and other executives are approved by the Compensation Committee. Exercise prices for options are set at the closing price of our common stock on the date of grant. Grants are generally made: (i) on the employee's start date and (ii) at board of director meetings held each February and following annual performance reviews. However, grants have been made at other times during the year. The size of year-end grants for each NEO is assessed against our internal equity guidelines. Current market conditions for grants for comparable positions and internal equity may also be assessed. Also, grants may be made in connection with promotions or job related changes in responsibilities. In addition, on occasion, the Compensation Committee may make additional special awards for extraordinary individual or company performance.

Compensation Setting Process

At the February meetings of our board of directors and the Compensation Committee, overall corporate performance and relative achievement of the corporate goals for the prior year are assessed. The relative achievement of each goal is assessed and quantified and the summation of the individual components results in a corporate goal rating, expressed as percentages. The Compensation Committee then approves the final disbursement of salary increases, cash bonuses and option or restricted stock grants.

The Compensation Committee looks to the CEO's performance assessments of the other NEOs and his recommendations regarding a performance rating for each, as well as input from the other members of our board of directors. These recommendations may be adjusted by the Compensation Committee prior to finalization. For the CEO, the Compensation Committee evaluates his performance, taking into consideration input from the other members of our board of directors, and considers the achievement of overall corporate objectives by both the CEO specifically and the company generally. The CEO is not present during the Compensation Committee's deliberations regarding his compensation.

The Compensation Committee has the authority to directly engage, at our company's expense, any compensation consultants or other advisors (such as StreeterWyatt) that it deems necessary to determine the amount and form of employee, executive and director compensation. In determining the amount and form of employee, executive and director compensation, the Compensation Committee has reviewed and discussed historical salary information as well as salaries for similar positions at comparable companies. However, the availability of this data does not imply that the Compensation Committee is under any obligation to exactly follow peer companies' compensation practices.

We paid consultant fees to StreeterWyatt of \$18,750. NEOs may have indirect input in the compensation results for other executive officers by virtue of their participation in the performance review and feedback process for the other executive officers.

ITEM 11. EXECUTIVE COMPENSATION

Summary Compensation Table

The following table provides information regarding the compensation earned during the fiscal years ended December 31, 2015, December 31, 2014 and December 31, 2013 by our Chief Executive Officer and the two next most highly compensated executive officers.

				Option		All Other mpensation	
Name/Position	Year	Salary	Bonus	Awards	Cu	(3)	Total
Kaushik J. Dave, CEO (1)	2015 2014 2013	\$ 353,500 350,000 112,134	\$ 51,000(4) 41,042(5)	\$ 969,113 798,865 32,830	\$	1,254,603 397,844 56,875	\$ 2,628,216 1,587,751 201,839
Jack Talley, former CEO, resigned on February 28, 2013	2015 2014 2013	\$ - - 298,077	\$ - - -	\$ 22,481	\$	- - -	\$ 320,558
Dragan Cicic, COO (2)	2015 2014 2013	\$ 277,750 260,416 213,118	\$ 35,000(6) 53,000(7)	\$ 125,317 101,844 75,463	\$	17,286 4,081	\$ 455,353 419,341 288,581
Enza Guagenti, former CFO, resigned on March 9, 2013	2015 2014 2013	\$ 28,025	\$ - - -	\$ - - 1,180	\$	- - -	\$ - - 29,205

- (1) Dr. Kaushik J. Dave became the Company's President and CEO on September 16, 2013.
- (2) Dr. Cicic's options awards were determined by taking into consideration the following factors: (i) Dr, Cicic's responsibilities at the Company; (ii) his performance historically and as an incentive for future efforts; (iii) compensation data taken from peer group companies (newly public biotech firms); and (iv) the level of his past awards.
- (3) Includes restricted stock based compensation awarded and other additional payments made during the period.

As an "emerging growth company" we will not be required to provide information relating to the ratio of total compensation of our Chief Executive Officer to the median of the annual total compensation of all of our employees, as required by the Investor Protection and Securities Reform Act of 2010, which is part of the Dodd-Frank Wall Street Reform and Consumer Protection Act.

- (4) The bonus disclosed in this item relates to 2014 but was contingent upon board approval, which occurred in 2015.
- (5) The bonus disclosed in this item relates to 2013 but was contingent upon board approval, which occurred in 2014.
- (6) The bonus disclosed in this item relates to 2014 but was contingent upon board approval, which occurred in 2015.
- (7) The bonus disclosed in this item relates to 2013 but was contingent upon board approval, which occurred in 2014.

Director Compensation

The following table sets forth the compensation of our directors for the 2015 fiscal year:

Name	s Earned or l in Cash	Stock Awards	Option Awards (1)	All Other Compensation	 Total
David Nicholson	\$ 55,053	-	64,938	-	\$ 119,991
Richard Steinhart	\$ 58,508	-	64,938	-	\$ 123,446
Sergio Traversa	\$ 51,932	-	64,938	-	\$ 116,870

(1) At the end of fiscal year 2015, the aggregate number of option awards outstanding for each director was as follows: (i) for Mr. Nicholson, 124,900, (ii) for Mr. Steinhart, 74,950, and (iii) for Mr. Traversa, 94,950.

In accordance with SEC rules, the amounts shown reflect the aggregate grant date fair value of option awards granted to Non-Employee Directors during 2015, computed in accordance with Financial Accounting Standards Board Accounting Standards Codification Topic 718.

Prior to February 2015, our Director Compensation Program, the non-employee members of our Board of Directors are paid a fixed annual fee of \$30,000 payable in four quarterly payments.

Commencing in February 2015, our non-employee directors will be paid an annual fee of \$40,000 and receive annual option grants of 25,000 shares. Board committee members will receive the following compensation:

BOD Committee	Ch	airman	 Member
Audit	\$	15,000	\$ 6,000
Compensation	\$	10,000	\$ 5,000
Corporate Governance	\$	7,500	\$ 3,000

Employment Agreements

Compensatory Plan with Kaushik Dave (Principal Executive Officer)

Effective September 16, 2013, and amended and restated on August 6, 2015, the Company and Dr. Kaushik J. Dave entered into an agreement (the "Employment Agreement"), to employ Dr. Dave as the Company's Chief Executive Officer. Dr. Dave shall have such responsibilities, duties and authority as are assigned to him by the Board, or its designee. These responsibilities shall include implementation of the overall direction of the Company as set by the Board, including, planning, corporate policies, research and development, staffing, finance and operations. Dr. Dave shall perform such other duties and shall have authority consistent with his position as may be from time to time specified by the Board and subject to the discretion of the Board. Dr. Dave reports directly to the Board. Dr. Dave also agreed to devote his best efforts and substantially all of his business time to advance the interests of the Company and to discharge adequately his duties under the Employment Agreement. Dr. Dave may hold up to two board seats on for-profit and not-for-profit boards that do not represent a conflict with the Company and subject to Board approval after review of the time commitment involved. Pursuant to the August 2015 amendment and restatement of Dr. Dave's agreement, among other things, the agreement provides enhance severance benefits, including in the event of a change of control of the Company (as summarized below), and provides for immediate vesting of options in accordance with the amended Stock Plan and Equity Plan. The agreement also changed Dr. Dave's title from "President and Chief Executive Officer" to "Chief Executive Officer".

Pursuant to the Employment Agreement, Dr. Dave is entitled to the following compensation and benefits:

• A base salary at an annual rate of \$350,000.

Upon the six month anniversary of the start date, the Board will review Dr. Dave's base salary with the help of an independent compensation consultant to adjust the base salary to be competitively aligned to a range between the 25th (twenty-fifth) and 75th (seventy-fifth) percentile of the relevant market data of CEO positions of similarly situated publicly traded Biotech companies. The Board shall review the amount of the base salary and performance bonus, and shall determine the appropriate adjustments to each component of Dr. Dave's compensation within 60 days of the start of each calendar year.

• Dr. Dave shall be entitled to participate in an executive bonus program, which shall be established by the Board pursuant to which the Board shall award bonuses to Dr. Dave, based upon the achievement of written individual and corporate objectives such as the Board shall determine. Upon the attainment of such performance objectives, Dr. Dave shall be entitled to a cash bonus in an amount to be determined by the Board with a target of forty percent (40%) of the base salary. At least thirty (30) days before each subsequent calendar year, the Board shall establish written individual and corporate performance objectives for such calendar year and the amount of the performance bonus payable upon the attainment of such objectives. Within sixty (60) days after the end of each calendar year, the Board shall determine the amount of any performance bonus payable thereunder. Any such performance bonus shall be due and payable within ninety (90) days after the end of the calendar year to which it relates.

- The Board has agreed to grant to Dr. Dave an option to purchase common shares of the Company and restricted stock (the "Grant"). The Grant will consist of (A) an option grant to purchase 675,000 common shares of the Company; (B) 125,000 shares of restricted and (C) 100,000 shares of restricted stock as a sign-on bonus of which fifty percent will vest at the one year anniversary of the start date upon starting work. An additional twenty-five percent each will vest at eighteen months and twenty-four months after the start date.
- Stock Options. Such options will have an exercise price equal to the prior day closing price of the Company's common stock which is equal to fair market value as determined by the Board on the date of the grant (the "Grant date"). The Grant Date shall occur no later than 90 days from the start date.
- Restricted Stock Grant (excluding the sign-on bonus). One third (33.33%) of the restricted stock was granted at the closing of the Company's private placement in January 2014, and shall vest per the vesting schedule below. The remaining two thirds (66.66%) of the restricted stock shall be granted upon the treatment of the first patient in 2014 for the Iomab-B trial and subject to the vesting schedule below.
- Vesting Schedule. Twenty-eight percent (28%) of the initial options or restricted stock granted shall vest twelve months after the date of grant and two percent (2%) of the remainder shall vest each month thereafter until fully vested. Such additional options or restricted stock will have an exercise price per share which is equal to fair market value as determined by the Board on the date of the grant. Two percent (2%) of such additional options or stock shall vest each month thereafter until fully vested. The term of all options granted under this Agreement will be for 10 years from the date of grant, subject to Dr. Dave's continuing service with the Company.
- Dr. Dave is also eligible to participate in the Company's benefit plans that are generally provided for executive employees.
- The employment agreement also contains a non-solicitation provision that provides that during the term of employment and for a period of 24 months following the cessation of employment with the company you Dr. Dave shall not directly or indirectly solicit, induce, recruit or encourage any of the Company's employees or consultants to terminate their relationship with the Company, or attempt any of the foregoing, either for himself or any other person or entity.
- If the Company terminates Dr. Dave's employment other than for cause or if he resigns for good reason, Dr. Dave shall be entitled to the following:
 - (i) a single lump sum payment equal to twelve (12) months of base salary compensation (at the rate in effect as of the date of termination);
 - (ii) continued health benefits for the 12-month period beginning on the date of termination; and
 - (iii) All outstanding equity awards granted to Dr. Dave under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".
- If the Company terminates Dr. Dave's employment other than for cause or if he resigns for good reason, in any case during the 12-month period beginning on the date of a change in control Dr. Dave shall be entitled to the following:
 - (i) a single lump sum payment equal to twenty-four (24) months of Dr. Dave's compensation (at the rate in effect as of the date of termination);
 - (ii) continued health benefits for the 24-month period beginning on the date of termination; and
 - (iii) All outstanding equity awards granted to Dr. Dave under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

Effective April 15, 2015 (the "Effective Date"), the Company and Dr. Dave entered into an agreement whereby the Company agreed to make certain payments, cancel certain restricted stock previously granted Dr. Dave, and make a new option grant to Dr. Dave. Pursuant to the terms of the agreement he Company agreed to pay to Dr. Dave (i) \$166,825 on or before the Effective Date; (ii) \$22,021 on or before the Effective Date; (iii) \$22,021 by June 30, 2015; (iv) \$22,021 by September 30, 2015; (v) \$22,021 by December 31, 2015; (vi) \$46,490 by April 15, 2016 so long as Dr. Dave is an employee of the Company on such date; and (vii) \$52,103 by December 31, 2016, so long as Dr. Dave is an employee of the Company on such date; provided however, that if Dr. Dave is not employed by the Company (A) on April 15, 2016 then Dr. Dave shall repay to the Company \$88,084 (which represents the payments made on April 15, 2015, June 30, 2015, September 30, 2015 and December 31, 2015, of \$20,021 each), and (B) on December 31, 2016 then Dr. Dave shall repay to the Company \$46,490 (which represents the payment made on April 15, 2016). In addition, until December 31, 2016, Dr. Dave will not, without the prior written consent of the Company, directly or indirectly, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant for the sale of, or otherwise dispose of or transfer 25,000 shares of common stock of the Company, which such shares vested on September 16, 2014. The parties also agreed that the 68,000 shares of restricted stock previously granted to Dr. Dave on February 21, 2014, and are unvested, shall be cancelled and that the Company shall grant to Dr. Dave 82,128 options which shall vest according to milestones as set forth in the agreement.

Chief Medical Officer Agreement

On January 2, 2006, Actinium Corporation entered into an employment agreement with Dragan Cicic, as our Chief Operating Officer and Chief Medical Officer. The term of the employment agreement is one year; provided that the term shall be automatically extended for successive one year periods thereafter, unless, no later than 60 days prior to the expiration of any successive one-year renewal term, either party thereto provides the other party written notice of its desire not to extend the term. Actinium agreed to pay a base salary of \$144,758 per annum during the term with an annual percentage increase of not less than an amount equal to the aggregate preceding 12 months annual percentage increase of the U.S. Department of Labor Consumer Price Index for All Urban Consumers (CPI-U) for the New York area. Dr. Cicic is also entitled to participate in any incentive compensation or bonus program which is instituted or maintained for company executives generally during the term of the agreement. In August 2014, the Company increased Dr. Cicic's base salary to \$275,000 per year. In August 2015, Dr. Cicic agreement was amended. Pursuant to the amendment, Dr. Cicic's title was changed to Chief Medical Officer from Chief Operating Officer and Chief Medical Officer.

Executive Chairman Agreement

In an agreement dated March 11, 2015, effective August 11, 2014 and amended and restated on August 6, 2015, our Chairman of the Board entered into a consulting agreement with the Company to serve as Executive Chairman of the Company. The Executive Chairman will be paid an annual consulting fee of \$350,000. During the term of this agreement, the annual consulting fee shall be maintained at least at the same amount as the annual compensation of the Chief Executive Officer of the Company. The Executive Chairman is also entitled to participate in a Company bonus program, which shall be established by the Board pursuant to which the Board shall award bonuses to the consultant, based upon the achievement of written individual and corporate objectives such as the Board shall determine. During the term of the agreement, the performance cash bonus shall be at least at the same amount as the performance cash bonus and other compensation paid to the Chief Executive Officer of the Company. On September 23, 2014, the Board also granted to the Executive Chairman an option to purchase 280,000 common shares of the Company at an exercise price of \$6.13 per share. The options vest at the rate of 2% of the grant each month from the grant Date until fully vested in accordance with the provisions of the Company's Amended and Restated 2013 Stock Plan. The Executive Chairman shall also be awarded stock option and/or restricted stock grants at least at the same amount as such stock option and/or restricted stock that is granted to the Chief Executive Officer of the Company. On August 6, 2015, Mr. Seth's agreement was amended and restated. Among other things, the amendment included severance benefits, including in the event of a change of control of the Company, and to provide for immediate vesting of options in accordance with the Company's amended Stock Plan and Equity Plan.

If the Company terminates the consulting arrangement other than for cause or if Mr. Seth resigns for good reason, Mr. Seth shall be entitled to the following:

- (i) a single lump sum payment equal to twenty-four (24) months of Mr. Seth's compensation (at the rate in effect as of the date of termination);
- (ii) continued health benefits for the 24-month period beginning on the date of termination; and
- (iii) All outstanding equity awards granted to Mr. Seth under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

If the Company terminates Mr. Seth's consulting arrangement other than for cause or if Mr. Seth resigns for good reason, in any case during the 12-month period beginning on the date of a change in control, Mr. Seth shall be entitled to the following:

- (i) a single lump sum payment equal to thirty (30) months of Mr. Seth's compensation (at the rate in effect as of the date of termination);
- (ii) continued health benefits for the 30-month period beginning on the date of termination; and
- (iii) All outstanding equity awards granted to Mr. Seth under the Company's equity compensation plans shall become immediately vested and exercisable (as applicable) as of the date of such termination and the performance goals with respect to such outstanding performance awards, if any, will deemed satisfied at "target".

Outstanding Equity Awards at Fiscal Year-End Table

OUTSTANDING EQUITY AWARDS AT FISCAL YEAR-END - 2015

The following table sets forth all unexercised options and unvested restricted stock that have been awarded to our named executives by the Company and were outstanding as of December 31, 2015.

	Option Awards					Stock Awards			
Name (a)	Number of Securities Underlying Unexercised Options (#) (Exercisable)	Number of Securities Underlying Unexercised Options (#) (Unexercisable) (c)	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned Options (#) (d)	Option Exercise Price (\$) (e)	Option Expiration Date (f)	Number of Shares or Units of Stock That Have Not Vested (#) (g)	Market Value of Shares or Units of Stock That Have Not Vested (\$) (h)	Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights That Have Not Vested (#) (i)	Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights That Have Not Vested (\$) (j)
Kaushik J. Dave	357,750 31,500 127,099	317,250 118,500 16,426	- - -	6.70 3.58 2.52	12/16/2023 02/15/2025 05/05/2025	-	-	-	-
Dragan Cicic	48,485 33,300 313,020 39,960 35,964 13,860 7,350 2,847	19,980 9,990 13,986 17,640 27,650	- - - - - - -	0.78 1.50 1.50	10/25/2016 11/28/2017 02/10/2022 08/30/2022 12/19/2022 02/21/2024 02/21/2025 05/05/2025	- - - - - -	- - - - -	- - - - - -	-

Indemnification of Directors and Officers

Section 102(b)(7) of the Delaware General Corporation Law allows a corporation to provide in its certificate of incorporation that a director of the corporation will not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except where the directors breached the duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. Our certificate of incorporation provides for this limitation of liability.

Section 145 of the General Corporation Law of the State of Delaware provides that a Delaware corporation may indemnify any person who was, is or is threatened to be made, party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of such corporation), by reason of the fact that such person is or was an officer, director, employee or agent of such corporation or is or was serving at the request of such corporation as a director, officer employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with such action, suit or proceeding, provided such person acted in good faith and in a manner he reasonably believed to be in or not opposed to the corporation's best interests and, with respect to any criminal action or proceeding, had no reasonable cause to believe that his conduct was illegal. A Delaware corporation may indemnify any persons who are, or were, a party to any threatened, pending or completed action or suit by or in the right of the corporation by reason of the fact that such person is or was a director, officer, employee or agent of another corporation or enterprise. The indemnity may include expenses (including attorneys' fees) actually and reasonably incurred by such person in connection with the defense or settlement of such action or suit, provided such person acted in good faith and in a manner he reasonably believed to be in or not opposed to the corporation's best interests, provided that no indemnification is permitted without judicial approval if the officer, director, employee or agent is adjudged to be liable to the corporation. Where an officer or director is successful on the merits or otherwise in the defense of any action referred to above, the corporation must indemnify him against the expenses which such officer or directors has actually and reasonably incurred.

Section 145 further authorizes a corporation to purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or enterprise, against any liability asserted against him and incurred by him in any such capacity, or arising out of his status as such, whether or not the corporation would otherwise have the power to indemnify him under Section 145.

Our bylaws provide that we will indemnify our directors and officers to the fullest extent authorized by the General Corporation Law of the State of Delaware. Expenses (including attorneys' fees) incurred by an officer or director of the Corporation in defending any civil, criminal, administrative or investigative action, suit or proceeding may be paid by the Company in advance of the final disposition of such action, suit or proceeding upon receipt of an undertaking by or on behalf of such director or officer to repay such amount if it shall ultimately be determined that such person is not entitled to be indemnified by the Company as authorized under Delaware law. Such expenses (including attorneys' fees) incurred by former directors and officers or other employees and agents of the Company or by persons serving at the request of the Company as directors, officers, employees or agents of another corporation, partnership, joint venture, trust or other enterprise may be so paid upon such terms and conditions, if any, as the Company deems appropriate.

The indemnification rights set forth above shall not be exclusive of any other right which an indemnified person may have or hereafter acquire under any bylaw, agreement, vote of stockholders or disinterested directors or otherwise, both as to action in such person's official capacity and as to action in another capacity while holding such office, and shall continue as to a person who has ceased to be a director, officer, employee, or agent and shall inure to the benefit of the heirs, executors, and administrators of such person.

We maintain a general liability insurance policy that covers liabilities of directors and officers of our corporation arising out of claims based on acts or omissions in their capacities as directors or officers. We have also entered in to Indemnification Agreements with our executive officers and directors.

Actinium Holdings Ltd. Indemnification

Pursuant to a letter Agreement dated, July 2011, between API and Actinium Holdings Ltd., API agreed to indemnify certain officers and directors of a predecessor company. Pursuant to the agreement, API will not, and will not permit any of its subsidiaries to, eliminate or otherwise reduce the right of any present or former director or officer of API, Actinium Pharmaceuticals Limited, a Bermuda corporation that merged into the Company ("APL"), and/or the present and former subsidiaries of API or APL (all such entities, collectively, the "Company Group") who currently serves, or at any time prior to the date thereof served, in any such capacity (all such directors and officers, collectively "Company Group Managers") to be indemnified against any costs or expenses (including reasonable attorneys' fees), judgments, fines, losses, claims, damages or liabilities of any nature whatsoever, incurred in connection with any claim, action, suit, proceeding or investigation, whether civil, criminal, administrative or investigative, arising out of or pertaining to matters existing or occurring on, prior to or after the date thereof, whether asserted or claimed prior to, on or after the date thereof, arising, in whole or in part, out of or pertaining to the fact that he or she is or was, or at any time in the future will have been, a Company Group Manager or is or was, or at any time in the future will have been, serving at the request of any entity in the Company Group (or at the request of any present or former affiliate (as such term is defined in Rule 405 under the Securities Act of 1933, as amended) of API for and on behalf of any entity in the Company Group as a director, officer, employee, fiduciary or agent of another corporation, partnership, joint venture, trust, other entity or otherwise, or to be advanced expenses, in any of the foregoing cases, to the fullest extent that such Company Group Manager would be entitled to be indemnified or advanced expenses under applicable law, API's or any such subsidiaries' certificate or articles of incorporation or bylaws or equivalent documents or any applicable contract (collectively, the "Applicable Documents"), in each case, as in effect on the date thereof.

The indemnification rights set forth above shall not be exclusive of any other right which an indemnified person may have or hereafter acquire under any bylaw, agreement, vote of stockholders or disinterested directors or otherwise, both as to action in such person's official capacity and as to action in another capacity while holding such office, and shall continue as to a person who has ceased to be a director, officer, employee, or agent and shall inure to the benefit of the heirs, executors, and administrators of such person.

We maintain a general liability insurance policy that covers liabilities of directors and officers of our corporation arising out of claims based on acts or omissions in their capacities as directors or officers.

At the present time, there is no pending litigation or proceeding involving a director, officer, employee, or other agent of ours in which indemnification would be required or permitted. We are not aware of any threatened litigation or proceeding that may result in a claim for such indemnification.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table shows the beneficial ownership of our Common Stock as of March 10, 2016 held by (i) each person known to us to be the beneficial owner of more than five percent (5%) of any class of our shares; (ii) each director; (iii) each executive officer; and (iv) all directors and executive officers as a group.

Beneficial ownership is determined in accordance with the rules of the SEC, and generally includes voting power and/or investment power with respect to the securities held. Shares of Common Stock subject to options and warrants currently exercisable or which may become exercisable within 60 days of March 10, 2016, are deemed outstanding and beneficially owned by the person holding such options or warrants for purposes of computing the number of shares and percentage beneficially owned by such person, but are not deemed outstanding for purposes of computing the percentage beneficially owned by any other person. Except as indicated in the footnotes to this table, the persons or entities named have sole voting and investment power with respect to all shares of our Common Stock shown as beneficially owned by them.

The percentages below are based on fully diluted shares of our Common Stock equivalents as of March 10, 2016. Unless otherwise indicated, the principal address of each of the persons below is c/o Actinium Pharmaceuticals, Inc., 275 Madison Ave, 7th floor, New York, NY 10016.

Executive Officers and Directors	•	Percentage of Ownership(a)
Executive Officers and Directors	Owncu	Owner snip(a)
Kaushik Dave, PhD	683,607(1)	1.6%
Dragan Cicic, MD	531,605(2)	1.2%
David Nicholson, PhD	109,158(3)	*%
Sandesh Seth	369,022(4)	*%
Richard I. Steinhart	37,720(5)	*0/0
Sergio Traversa, Pharm. D.	73,208(6)	*%
All Directors and Officers as a Group (6 persons)	1,804,320	4.2%
All other 5% holders		
Memorial Sloan Kettering Cancer Center 546 5 th Avenue, 14 th Floor		
New York, NY 10036	5,702,387	15.8%

^{*} less than 1%

- (a) Based on 44,391,097 shares of Common Stock outstanding as of March 10, 2016
- (1) Options to purchase an aggregate of 675,000 shares of Common Stock of the Company at an exercise price of \$6.70 per share, options to purchase an aggregate of 150,000 shares of Common Stock of the Company at an exercise price of \$3.58 per share and options to purchase an aggregate of 143,525 shares of Common Stock of the Company at an exercise price of \$2.52 per share. Within 60 days of March 10, 2016, 592,775 options will have vested. Includes 90,832 shares of common stock.
- (2) Options granted to purchase an aggregate of 333,000 shares of Common Stock of the Company at an exercise price of \$0.784 per share, options to purchase an aggregate of 99,900 shares of Common Stock of the Company at an exercise price of \$1.50 per share, options to purchase an aggregate of 81,784 shares of Common Stock of the Company at an exercise price of \$1.35 per share, options to purchase an aggregate of 31,500 shares of Common Stock of the Company at an exercise price of \$5.55 per share, options to purchase an aggregate of 35,000 shares of Common Stock of the Company at an exercise price of \$3.58 per share and options to purchase an aggregate of 2,874 shares of Common Stock of the Company at an exercise price of \$2.52 per share. All options are subject to vesting. Within 60 days of March 10, 2016, 528,105 options will have vested. Includes 3,500 shares of common stock.
- (3) Options to purchase an aggregate of 49,950 shares of Common Stock of the Company at an exercise price of \$0.784 per share and options to purchase an aggregate of 49,950 shares of Common Stock of the Company at an exercise price of \$1.50 per share. On February 18, 2015, Mr. Nicholson was granted 25,000 options with an exercise price of \$3.58 per share. All options are subject to vesting. Within 60 days of March 10, 2016, 99,158 options will have vested. Includes 10,000 shares of common stock.

- (4) Warrants to purchase an aggregate of 64,747 shares of Common Stock of the Company at an exercise price of \$0.784 per share, exercisable on a cashless basis and warrants to purchase an aggregate of 99,617 of Common Stock of the Company at an exercise price of \$0.784 per share, exercisable on a cashless basis issued to Amrosan, LLC, a partnership in which the majority member interest is owned by the family of Mr. Seth. Excludes warrants to purchase an aggregate of 375,556 shares of Common Stock of the Company at par value per share, exercisable on a cashless basis issued to Amrosan, LLC as the warrants are not exercisable upon less than 90 days' notice. The holder may waive the 90 day exercise notice requirement by giving 65 days prior notice of such waiver. The shares available by exercise of this Warrant are also restricted and may not be sold or otherwise transferred until the earlier of twelve months from December 28, 2012, the closing date of the going Share Exchange; or for six months after the Registration Statement of which this prospectus is a part is declared effective. Excludes 353,023 warrants issued to Carnegie Hill Asset Partners and irrevocable trust linked to Mr. Seth's family and 721,068 warrants issued to Bioche Asset Management, LLC, a partnership in which the majority member interest is owned by the family of Mr. Seth whose terms are the same as those issued to Amrosan LLC. Also excludes warrants held by the Placement Agent or its affiliates in connection with the offering of common stock and Series A and Series B warrants that closed on December 19, 2012 (the "2012 Offering"), the Bridge Notes Financing, the Series E financing and by designees of Jamess Capital Group, LLC in connection with the Share Exchange. Also includes options to purchase an aggregate of 49,950 shares of Common Stock of the Company at an exercise price of \$1.50 per share. Mr. Seth was granted 280,000 options on September 23, 2014 with an exercise price of \$6.13 per share. On February 18, 2015, Mr. Seth was granted 150,000 options with an exercise price of \$3.58 per share. All options are subject to vesting. Within 60 days of March 10, 2016, 194,658 options will have vested. Includes 10,000 shares of common stock.
- (5) Options to purchase an aggregate of 49,950 shares of Common Stock of the Company at an exercise price of \$6.70 per share, On February 18, 2015, Mr. Steinhart was granted 25,000 options with an exercise price of \$3.58 per share. All options are subject to vesting. Within 60 days of March 10, 2016, 37,720 options will have vested.
- (6) Options to purchase an aggregate of 49,950 shares of Common Stock of the Company at an exercise price of \$1.50 per share. Options to purchase an aggregate of 20,000 shares of Common Stock of the Company at an exercise price of \$3.60 per share. On February 18, 2015, Mr. Traversa was granted 25,000 options with an exercise price of \$3.58 per share. All options are subject to vesting. Within 60 days of March 10, 2016, 63,208 options will have vested.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Transactions with Related Persons

On July 10, 2014, the Company completed a public offering that totaled 1,827,123 common shares, representing gross proceeds of approximately \$13.7 million and a net amount of approximately \$12.6 million after deducting the underwriting discount and the other offering expenses. Laidlaw & Company (UK) Ltd., of which Mr. Seth, Executive Chairman of the Company was the Head of Healthcare Investment Banking, acted as lead manager. The offering was made pursuant to a shelf registration statement (File No. 333-194768) previously filed with and declared effective by the U.S. Securities and Exchange Commission.

On February 11, 2015, the Company completed a public offering that totaled 4,444,444 common shares and warrants to purchase an aggregate of 3,333,333 shares of common stock at a combined price to the public of \$4.50, representing gross proceeds of approximately \$20.0 million and a net amount of approximately \$18.5 million after deducting the underwriting discount and the other offering expenses. Laidlaw & Company (UK) Ltd. acted as sole book-running manager for the offering. The offering was made pursuant to a shelf registration statement (File No. 333-194768) previously filed with and declared effective by the U.S. Securities and Exchange Commission.

In an agreement dated March 11, 2015 and effective August 11, 2014, our Chairman of the Board entered into a consulting agreement with the Company to serve as Executive Chairman of the Company. The agreement was amended and restated on August 6, 2015. The Executive Chairman will be paid an annual consulting fee of \$350,000. During the term of this agreement, the annual consulting fee shall be maintained at least at the same amount as the annual compensation paid to the Chief Executive Officer of the Company. The Executive Chairman is also entitled to participate in a Company bonus program, which shall be established by the Board pursuant to which the Board shall award bonuses to the consultant, based upon the achievement of written individual and corporate objectives such as the Board shall determine. During the term of the agreement, the performance cash bonus shall be at least at the same amount as the performance cash bonus paid to the Chief Executive Officer of the Company. On September 23, 2014, the Board also granted to the Executive Chairman an option to purchase 280,000 common shares of the Company at an exercise price of \$6.13 per share. The options vest at the rate of 2% of the grant each month from the grant Date until fully vested in accordance with the provisions of the Company's Amended and Restated 2013 Stock Plan. The Executive Chairman shall also be awarded stock option and/or restricted stock grants at least at the same amount as such stock option and/or restricted stock that is granted to the Chief Executive Officer of the Company.

On June 4, 2015, the Company entered into subscription agreements with certain investors to sell approximately \$5 million of its common stock in a registered direct offering. Under the terms of the subscription agreements, the Company will issued an aggregate of 1,923,078 shares of the Company's common stock at a purchase price of \$2.60 per share. The offering closed on June 10, 2015. Laidlaw & Company (UK) Ltd. acted as the sole placement agent with respect to the offering. The securities were offered pursuant to the Company's effective shelf registration statement previously filed with the Securities and Exchange Commission on Form S-3.

On December 21, 2015, Actinium entered into an Investor Rights Agreement (the "Investor Rights Agreement") with Memorial Sloan Cancer Center ("MSKCC"). Under the terms of the Investor Rights Agreement, MSKCC has agreed to forebear from transferring or otherwise disposing of its approximately 5.7 million Actinium shares (other than pursuant to a piggyback registration as described below) until the start of the Actimab-A Phase 2 clinical study (but, in no event until later than March 31, 2016). Thereafter MSKCC shall be permitted to sell its shares subject to a weekly volume limitation of 150,000 shares (which limit may be increased to up to 250,000 shares per week to the extent any prior weekly allotments were not fully used) and applicable law so long as MSKCC maintains at least 25% of its current shareholding in Actinium through December 31, 2016. Actinium has granted MSKCC piggyback registration rights that would be triggered in the event Actinium were to engage in a public registered offering of its shares for its own account where other shareholders are participating as selling shareholders or where such public registered offering is for the account of other selling shareholders. In addition, following December 31, 2016, Actinium has granted MSKCC unlimited Form S-3 registration rights with respect to its shares.

Non-Competition Agreements

Our executive officers have signed non-competition agreements, which provide that all inventions become the immediate property of API and require invention assignments. The agreements provide that the executive officers will hold proprietary information in the strictest confidence and not use the confidential information for any purpose not expressly authorized by us.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The aggregate fees billed for the fiscal years ended December 31, 2015 and 2014 for professional services rendered by GBH CPAs, PC for the audits of the Company's annual financial statements included in Form 10-K ("Audit Fees"), tax compliance, advice, and planning ("Tax Fees"), and other products or services provided ("Other Fees"):

	Decen	Ended iber 31, 015	Year Ended December 31, 2014		
Audit Fees	\$	136,800	\$ 13	4,850	
Audit – Related Fees	-	-		-	
Tax Fees		-		-	
All Other Fees		-		-	
Total	\$	136,800	\$ 13	4,850	

Pre-Approval Policy

In 2015, the Audit Committee adopted policies and procedures for the pre-approval of audit and non-audit services performed by the independent registered public accountants pursuant to which the Audit Committee generally is required to pre-approve the audit and permissible non-audit services performed by the independent registered public accountants in order to ensure that the provision of such services does not impair the registered accountants' independence.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

January 4, 2013).

Exhibit Number	Description
2.1	Share Exchange Agreement, dated December 28, 2012, by and among Cactus Ventures, Inc., Actinium Pharmaceuticals, Inc.,
2.1	Diane S. Button, and the shareholders of Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 2.1 to Form 8 K filed on January 2, 2013).
2.2	Share Exchange Agreement, dated March 11, 2013, by and among Cactus Ventures, Inc., Actinium Pharmaceuticals, Inc, and
	the shareholders of Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.1 to Form 8-K filed on March 11 2013).
2.3	Share Exchange Agreement, dated August 22, 2013, by and among Actinium Pharmaceuticals, Inc, Actinium Corporation, and the shareholders of Actinium Corporation (incorporated by reference to Exhibit 2.3 to Form S-1/A filed on August 22, 2013).
3.1	Articles of Incorporation of Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 3.1 of the Company's Form 8-K filed with the SEC on April 17, 2013).
3.2	Fifth Restated Certificate of Incorporation of Actinium Corporation (fka, Actinium Pharmaceuticals, Inc.) (incorporated by reference to Exhibit 3.5 to Form 8-K filed on January 2, 2013).
3.3	Bylaws of Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 3.2 of the Company's Form filed with the SEC on April 17, 2007).
3.4	Bylaws of Actinium Corporation (fka, Actinium Pharmaceuticals, Inc.) (incorporated by reference to Exhibit 3.7 to Form 8-K filed on January 2, 2013).
3.5	Certificate of Amendment to Articles of Incorporation filed January 7, 2014 (incorporated by reference to Exhibit 3.5 to Form
3.6	S-1 filed on January 31, 2014). Certificate of Amendment to Articles of Incorporation filed February 3, 2014. (incorporated by reference to Exhibit 3.1 to
	Form 8-K filed on February 7, 2014).
3.7	Certificate of Amendment to Articles of Incorporation filed February 26, 2015. (incorporated by reference to Exhibit 3.1 to Form 8-K filed on March 4, 2015).
3.8	Amendment to Amended and Restated Bylaws, dated August 6, 2015 (incorporated by reference to Exhibit 3.1 to Form 10-Q filed on August 7, 2015).
3.9	Second Amendment to Amended and Restated Bylaws, as amended, dated November 20, 2015 (incorporated by reference to Exhibit 3.1 to Form 8-K filed on November 27, 2015).
4.1	Form of A Warrant, dated December 19, 2012 (incorporated by reference to Exhibit 4.1 to Form 8-K filed on January 2, 2013)
4.2	Form of B Warrant, dated December 19, 2012 (incorporated by reference to Exhibit 4.2 to Form 8-K filed on January 2, 2013)
4.3	Form of Lock Up Agreement, dated December 2012 (incorporated by reference to Exhibit 4.3 to Form 8-K filed on January 2 2013).
4.4	Lock-up Agreement, dated August 22, 2013 (incorporated by reference to Exhibit 4.7 to Form S-1/A filed on August 22, 2013).
4.5	Form of Common Stock Warrant, dated December 27, 2013 and January 10, 2014 (incorporated by reference to Exhibit 4.8 to Form S-1 filed on January 31, 2013).
4.6	Form of Lock-Up Agreement, dated December 27, 2013 (incorporated by reference to Exhibit 4.9 to Form S-1 filed of January 31, 2014).
4.7	Form of Warrant (incorporated by reference to Exhibit 4.1 to Form 8-K filed on February 6, 2015).
10.1	Registration Rights Agreement, by and among Actinium Pharmaceuticals, Inc., General Atlantic Investments Limited, and Certain Stockholders, dated June 30, 2000 (incorporated by reference to Exhibit 10.1 to Form 8-K filed on January 2, 2013).
10.2	Amendment No. 1 to June 30, 2000 Registration Rights Agreement, dated September 29, 2011 (incorporated by reference to Exhibit 10.2 to Form 8-K/A filed on January 4, 2013).
10.3	First Amended and Restated Stockholders Agreement, by and among Actinium Pharmaceuticals, Inc., Actinium Holdings Limited, N.V. Organon, and the Stockholders Listed Therein, dated October 5, 2011(incorporated by reference to Exhibit 10.0 to Form 8-K/A filed on January 4, 2013).
10.4	Second Amended and Restated Investor Rights Agreement, by and among Actinium Pharmaceuticals, Inc., Actinium Holdings Limited, and the Investors Listed Therein, dated October 5, 2011 (incorporated by reference to Exhibit 3.5 to Form 8-K filed
10.5	on January 4, 2013).
10.5	Intentionally left blank. Form of Subscription Agreement, dated December 19, 2012 (incorporated by reference to Exhibit 10.6 to Form 8-K filed or January 2, 2013).
10.7	Form of Unit Purchase Agreement, dated December 19, 2012 (incorporated by reference to Exhibit 10.7 to Form 8-K filed or January 2, 2013).
10.8	Employment Agreement, dated January 2, 2006, between Actinium Pharmaceuticals, Inc. and Dragan Cicic (incorporated by reference to Exhibit 10.8 to Form 8-K/A filed on January 4, 2013).
10.9	License, Development and Commercialization Agreement between Sloan-Kettering Institute of Cancer Research, and Actiniur Pharmaceuticals, Inc., dated February 11, 2002; as amended by the First Amendment dated August 7, 2006 (incorporated by reference to Exhibit 10.9 to Form 8-K/A filed on January 4, 2013).
10.10	Phase 1/2 Study on the safety and efficiency of 225ACAc-HuM195 in patients with advanced Myeloid malignancies with Millennix Opcology. Averion Project, dated December 6, 2006 (incorporated by reference to Exhibit 3.5 to Form 8.K filed on

Product Development and Patent License Agreement, dated February 27, 2003, by and between AbbVie Biotherapeutics and Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.11 to Form 8-K/A filed on January 4, 2013).

Millennix Oncology, Averion Project, dated December 6, 2006 (incorporated by reference to Exhibit 3.5 to Form 8-K filed on

- 10.12 Clinical Trial Agreement, dated July 19, 2012, by and between Fred Hutchinson Cancer Center and Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.12 to Form 8-K/A filed on January 4, 2013).
- 10.13 Employment Letter between Jack V. Talley and Actinium Pharmaceuticals, Inc., effective August 15, 2012 (incorporated by reference to Exhibit 3.5 to Form 8-K filed on January 4, 2013).
- Employment Letter between Enza Guagenti and Actinium Pharmaceuticals, Inc., effective August 15, 2012 (incorporated by reference to Exhibit 10.14 to Form 8-K/A filed on January 4, 2013).
- 10.15 Clinical Trial Agreement, dated January 18, 2001, between Actinium Pharmaceuticals, Inc. and Memorial Sloan Kettering Cancer Center for the purpose of conducting a clinical trial entitled "Phase 1/2 trial of 213Bi-M195 and cytarabine for Acute Myeloid Leukemia." (incorporated by reference to Exhibit 10.15 to Form 8-K/A filed on January 4, 2013).
- 10.16 Clinical Trial Agreement with The Trustees of the University of Pennsylvania, dated November 8, 2012 (incorporated by reference to Exhibit 10.16 to Form 8-K/A filed on January 4, 2013).
- 10.17 Clinical Trial Agreement, dated March 27, 2012, with Memorial Sloan-Kettering Cancer Center (incorporated by reference to Exhibit 10.17 to Form 8-K/A filed on January 4, 2013).
- 10.18 Clinical Trial Agreement, dated September 22, 2012, with Johns Hopkins University, dated September 24, 2012 (incorporated by reference to Exhibit 10.18 to Form 8-K/A filed on January 4, 2013).
- 10.19 License Agreement, dated June 14, 2012, for BC8 antibody with Fred Hutchinson Cancer Research Center (incorporated by reference to Exhibit 10.19 to Form 8-K/A filed on January 4, 2013).
- 2012 Unit Investor Rights Agreement, dated December 19, 2012, by and among Actinium Pharmaceuticals, Inc., the persons identified on Exhibit A attached thereto, and the Placement Agent (incorporated by reference to Exhibit 10.20 to Form 8-K/A filed on January 4, 2013).
- Project Agreement, dated September 30, 2011, between Actinium Pharmaceuticals, Inc. and Aptiv Solutions, Inc. (incorporated by reference to Exhibit 10.21 to Form 8-K/A filed on January 4, 2013).
- 10.22 Proposal, dated March 30, 2007, with IsoTherapeutics Group, LLC (incorporated by reference to Exhibit 10.22 to Form 8-K/A filed on January 4, 2013).
- 10.23 Clinical Trial Agreement with The University of Texas M.D. Anderson Cancer, dated March 1, 2012 (incorporated by reference to Exhibit 10.23 to Form 8-K/A filed on January 4, 2013).
- Amendment No. 1 to Research Agreement, dated November 7, 2012, between Actinium Pharmaceuticals, Inc. and The University of Texas M.D. Anderson Cancer (incorporated by reference to Exhibit 10.24 to Form 8-K/A filed on January 4, 2013).
- 10.25 Letter Agreement, dated June 19, 2011, between Actinium Pharmaceuticals, Inc. and Sloan-Kettering Institute for Cancer Research (incorporated by reference to Exhibit 10.25 to Form 8-K/A filed on January 4, 2013).
- Letter Agreement, dated April 9, 2010, between Actinium Pharmaceuticals, Inc. and Sloan-Kettering Institute for Cancer Research (incorporated by reference to Exhibit 10.26 to Form 8-K/A filed on January 4, 2013).
- Letter Agreement, dated July 2010, between Actinium Pharmaceuticals, Inc. and Actinium Holdings Limited (Waiver of Anti-Dilution Rights) (incorporated by reference to Exhibit 10.27 to Form 8-K/A filed on January 4, 2013).
- 10.28 Clinical Trial Agreement, dated April 12, 2006, with Sloan-Kettering Institute for Cancer Research and Memorial Hospital for Cancer and Allied Diseases (incorporated by reference to Exhibit 10.28 to Form 8-K /A filed on January 4, 2013).
- Letter Agreement, dated __, 2011, between Actinium Pharmaceuticals, Inc. and Actinium Holdings Limited (Waiver of Registration Rights) (incorporated by reference to Exhibit 10.29 to Form 8-K/A filed on January 4, 2013).
- Agreement, dated November 29, 2012, by and between Oak Ridge National Laboratory and Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 10.30 to Form S-1/A filed on August 22, 2013).
- Transaction Management Agreement, dated May 9, 2011, by and between Jamess Capital Group, LLC (fka, AmerAsia Capital Group LLC) and Actinium Corporation (fka, Actinium Pharmaceuticals Inc.) (incorporated by reference to Exhibit 10.31 to Form S-1 filed on September 30, 2013).
- Employment Agreement, effective September 16, 2013, by and between Actinium Pharmaceuticals, Inc. and Kaushik J. Dave (incorporated by reference to Exhibit 10.32 to Form S-1/A filed on October 28, 2013).
- Actinium Pharmaceuticals, Inc. Amended and Restated 2013 Stock Plan (incorporated by reference to Exhibit 10.33 to Form S-1 filed on January 31, 2014).
- 10.34 Actinium Pharmaceuticals, Inc. Amended and Restated 2013 Equity Incentive Plan (incorporated by reference to Exhibit 10.34 to Form S-1 filed on January 31, 2014).
- Form of Unit Purchase Agreement, dated December 27, 2013 and January 10, 2014 (incorporated by reference to Exhibit 10.35 to Form S-1 filed on January 31, 2014).
- Form of Subscription Agreement, dated December 27, 2013 and January 10, 2014 (incorporated by reference to Exhibit 10.36 to Form S-1 filed on January 31, 2014).
- Form of Registration Rights Agreement, dated December 27, 2013 and January 10, 2014 (incorporated by reference to Exhibit 10.37 to Form S-1 filed on January 31, 2014).
- 10.38 Letter Agreement, dated September 4, 2013, between Actinium Pharmaceuticals, Inc. and Sloan-Kettering Institute for Cancer Research (incorporated by reference to Exhibit 10.38 to Form S-1 filed on January 31, 2014).
- 10.39 At-the-Market Issuance Sales Agreement, dated March 24, 2014, by and between Actinium Pharmaceuticals, Inc. and MLV & Co. LLC (incorporated herein by reference to Exhibit 1.2 to Actinium's Registration Statement on Form S-3 filed March 24, 2014).
- Underwriting Agreement, dated June 25, 2014, by and between Canaccord Genuity Inc. and Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 1.1 to Form 8-K filed on June 25, 2014).
- Underwriting Agreement, dated June 25, 2014, by and between Laidlaw & Company (UK) Ltd. and Actinium Pharmaceuticals, Inc. (incorporated by reference to Exhibit 1.1 to Form 8-K filed on February 6, 2015).
- Actinium Pharmaceuticals, Inc. Amended and Restated 2013 Stock Plan (incorporated by reference to Exhibit 10.42 to Form 10-K filed on March 16, 2015).
- 10.43 Consulting Agreement by and between Actinium Pharmaceuticals, Inc. and the Executive Chairman (incorporated by reference to Exhibit 10.43 to Form 10-K filed on March 16, 2015).

- Actinium Pharmaceuticals, Inc. Amended and Restated 2013 Equity Incentive Plan (incorporated by reference to Exhibit 10.44 to Form 10-K filed on March 16, 2015).
- Agreement, dated as of May 7, 2015, and effective April 15, 2015, by and between Actinium Pharmaceuticals, Inc. and Kaushik J. Dave (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on May 8, 2015).
- Placement Agent Agreement, dated June 4, 2015, by and between Actinium Pharmaceuticals, Inc. and Laidlaw & Company (UK) Ltd. (incorporated by reference to Exhibit 10.1 to Form 8-K filed on June 5, 2015).
- Form of Subscription Agreement, dated June 4, 2015, by and between Actinium Pharmaceuticals, Inc. and certain investors (incorporated by reference to Exhibit 10.2 to Form 8-K filed on June 5, 2015).
- First Amendment to Amended and Restated 2013 Stock Plan, effective August 6, 2015 (incorporated by reference to Exhibit 10.1 to Form 10-Q filed on August 7, 2015).
- 10.49 First Amendment to Amended and Restated 2013 Equity Incentive Plan, effective August 6, 2015 (incorporated by reference to Exhibit 10.2 to Form 10-Q filed on August 7, 2015).
- 10.50 Form of indemnification Agreement (incorporated by reference to Exhibit 10.3 to Form 10-Q filed on August 7, 2015).
- Amended and Restated Consulting Agreement, dated August 6, 2015, by and between Actinium Pharmaceuticals, Inc. and Sandesh Seth (incorporated by reference to Exhibit 10.4 to Form 10-Q filed on August 7, 2015).
- Amended and Restated Employment Agreement, dated August 6, 2015, by and between Actinium Pharmaceuticals, Inc. and Kaushik J. Dave (incorporated by reference to Exhibit 10.5 to Form 10-Q filed on August 7, 2015).
- Amendment to Employment Agreement, dated August 6, 2015, by and between Actinium Pharmaceuticals, Inc. and Dragan Cicic (incorporated by reference to Exhibit 10.6 to Form 10-Q filed on August 7, 2015).
- Second Amendment to the 2013 Amended and Restated Stock Plan, effective as of December 15, 2015 (incorporated by reference to Exhibit 10.1 to Form 8-K filed on December 16, 2015).
- 10.55 Investor Rights Agreement, dated December 21, 2015, by and between Actinium Pharmaceuticals, Inc. and Memorial Sloan Kettering Cancer Center (incorporated by reference to Exhibit 10.1 to Form 8-K filed on December 24, 2015).
- 10.56 Third Amendment to the 2013 Amended and Restated Stock Plan, effective as of December 22, 2015
- 10.57 Office Space License Agreement, dated March 10, 2016, by and between Actinium Pharmaceuticals, Inc. and Relmada Therapeutics, Inc.
- 14.1 Code of Ethics (incorporated by reference to Exhibit 14.1 to Form 8-K filed on January 2, 2013).
- 21.1 List of Subsidiaries.
- 23.1 Consent of GBH CPAs, PC.
- 31.1 Certification of Principal Executive Officer, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 31.2 Certification of Principal Financial and Accounting Officer, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
- 32.1* Certification of Principal Executive Officer, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 32.2* Certification of Principal Financial and Accounting Officer, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- 101.INS ** XBRL Instance Document
- 101.SCH ** XBRL Taxonomy Schema
- 101.CAL ** XBRL Taxonomy Calculation Linkbase
- 101.DEF ** XBRL Taxonomy Definition Linkbase
- 101.LAB ** XBRL Taxonomy Label Linkbase
- 101.PRE ** XBRL Taxonomy Presentation Linkbase

^{*}In accordance with SEC Release 33-8238, Exhibit 32.1 is being furnished and not filed.

^{**} Furnished herewith. XBRL (Extensible Business Reporting Language) information is furnished and not filed or a part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, is deemed not filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and otherwise is not subject to liability under these sections.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following person on behalf of the Registrant.

Dated: March 11, 2016 **ACTINIUM PHARMACEUTICALS, INC.**

By: /s/ Kaushik J. Dave

Kaushik J. Dave Chief Executive Officer and Interim Chief Financial Officer (Duly Authorized Officer, Principal Executive Officer and

Principal Financial and Accounting Officer)

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

Signature	Title	Date
/s/ Kaushik J. Dave Kaushik J. Dave	Chief Executive Officer, Interim Chief Financial Officer and Director (Principal Executive Officer and Principal Financial and Accounting Officer)	March 11, 2016
/s/ Sandesh Seth Sandesh Seth	Executive Chairman, Director	March 11, 2016
/s/ David Nicholson David Nicholson	Director	March 11, 2016
/s/ Richard I. Steinhart	Director	March 11, 2016
/s/ Sergio Traversa Sergio Traversa	Director	March 11, 2016
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THIRD AMENDMENT TO ACTINIUM PHARMACEUTICALS, INC. 2013 AMENDED AND RESTATED STOCK PLAN

Pursuant to Section 14 of the 2013 Amended and Restated Stock Plan, as amended (the "Plan") of Actinium Pharmaceuticals, Inc. (the "Company"), the Board of Directors of the Company has duly adopted a resolution, conditioned upon approval by the stockholders of the Company, approving this Third Amendment to the Plan to increase the total number of shares of common stock, par value \$.001 per share, of the Company (the "Common Stock") reserved and available for issuance under the Plan as follows:

1. Section 3 of the Plan is hereby amended to read in its entirety as follows:

"Subject to the provisions of Section 14 of the Plan, the maximum aggregate number of Shares reserved for issuance to Participants under the Plan is 9,250,000, and the maximum aggregate number of Shares that may be granted in the form of Incentive Stock Options is 9,250,000. The Shares may be authorized, but unissued, or reacquired Common Stock. If an award should expire or become unexercisable for any reason without having been exercised in full, the unpurchased Shares that were subject thereto shall, unless the Plan shall have been terminated, become available for future grant under the Plan. In addition, any Shares of Common Stock which are retained by the Company upon exercise of an award in order to satisfy the exercise or purchase price for such award or any withholding taxes due with respect to such exercise or purchase shall be treated as not issued and shall continue to be available under the Plan. Shares issued under the Plan and later repurchased by the Company pursuant to any repurchase right which the Company may have shall not be available for future grant under the Plan."

- 2. All other terms and provisions of the Plan shall remain unchanged and in full force and effect as written.
- 3. A majority in voting interest of the stockholders present in person or by proxy and entitled to vote at the meeting of stockholders at which this Third Amendment N was considered, has duly approved this Third Amendment to the Plan.

IN WITNESS WHEREOF, this Amendment No. 3 to the Plan is made effective this 22nd day of December, 2015.

ACTINIUM PHARMACEUTICALS, INC.

By: /s/ Kaushik J. Dave Name: Kaushik J. Dave

Title: Chief Executive Officer

OFFICE SPACE LICENSE AGREEMENT

Office Space License Agreement ("Agreement") dated March 10, 2016 and effective as of January 1, 2016, by and between RELMADA THERAPEUTICS, INC., a Nevada Corporation ("Relmada"), and ACTINIUM PHARMACEUTICALS, INC., a Delaware Corporation ("Client"), with respect to the license of the portion identified in Exhibit A (the "Client Area") of the portion of the 7 th Floor of the office building located at 275 Madison Avenue, New York, New York ("Building"), upon and subject to the following terms, covenants and conditions.

- A. This lease is subject to and subordinate to the Lease Agreement ("Base Lease") dated as of June 9, 2015, by and between GP 275 Owner, LLC ("Landlord"), and Relmada. The premises ("Base Lease Premises") are the portion of the 7th Floor of the office building located at 275 Madison Avenue, New York, New York 10016, including 5,790 square feet.
- B. Client desires to obtain the use of the space designated as the Client Area on Exhibit A, which space is a part of the Base Lease Premises leased to Relmada under the Base Lease with the Landlord, and Relmada is willing to grant a license to use such portion of the Base Lease Premises to Client upon the terms and conditions hereinafter set forth.

NOW THEREFORE, in consideration of the Service Fee (as hereinafter defined) to be paid, the mutual covenants and agreements herein contained, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

- 1. CLIENT AREA. Relmada hereby grants the Client the right and license to use the Client Area during the Term (as hereinafter defined).
- **2. TERM.** The term of this Agreement shall be three (3) years (hereinafter "Term" to commence on January 1, 2016, (the "Commencement Date"), and expire on December 31, 2018 (hereinafter "Expiration Date"). Upon the expiration of the Term, this Agreement will automatically renew on a month-to-month basis unless or until either party gives the other party thirty (30) days prior written notice of termination. The word Term, as used in this Agreement, shall mean the initial Term plus all renewal Terms.
- 3. SERVICE FEE; DEPOSIT. During the Term of this Agreement, Client shall pay to Relmada, in advance without offset or deduction, on or before the first day of each month, a service fee (the "Service Fee") in the amount equal to Client's "pro rata share" of (i) any Rent (as defined under the Base Lease) due and payable by Relmada under the Base Lease as of the first day of such month (or otherwise applicable to such month) and (ii) any other charges due and payable by Relmada for such month for any services described in this Agreement but not otherwise covered under the Base Lease; provided, however, that Client shall bear and pay for the entirety of any charges under the Base Lease and/or other services resulting solely from Client's usage, requests, actions and/or omissions. Client's "pro rata share" shall be calculated as the proportion of Client's Area to the Base Lease Premises. For clarity purposes only and without limiting any obligations of Client hereunder, the Service Fee shall include the following (all following defined terms shall have the meaning ascribed to them under the Base Lease): Minimum Rent and Additional Rent (including without limitation, Electricity Factor, Tax Payment, Capital Improvement charges, Operating Cost Increase, BID Payment, charges for any Services (including without limitation, HVAC, elevator, cleaning, trash removal and after hours and additional services)). Client shall also be responsible to pay 50% of the capital improvement costs to build out the Base Lease Premises with such payments to be spread out in equal installments over the initial term of the Base Lease.

Client shall pay the Service Fee for the first full month upon execution of this Agreement. If the Commencement Date is not the first day of the month, or the Expiration Date is not the last day of the month, then the Service Fee will be pro-rated for any applicable partial month. In addition, upon signing of this Agreement, Client shall pay to Relmada a deposit in an amount equal to three (3) months' Service Fee (to be calculated using actual and estimated Rent under the Base Lease), which will be returned to Client upon satisfactory termination of this Agreement, after adjusting for any costs to repair damage caused to Client Area.

4. CLIENT AREA.

(a) Use. The Client Area may be used solely for general office and administrative purpose and for no other purpose.

Neither Client nor any Client Party shall use any portion of the halls, corridors, stairways, elevators or other public portions of the Building or any entranceways, sidewalks or roadways adjoining the Building in any manner which would cause any unreasonable congestion or in any way impede the flow of pedestrian traffic outside of the Premises or the Building.

Client shall not, and shall not permit any Client Party or any other person to, access or attempt to access any records, confidential information, systems, or communications of Relmada, and shall at all times comply with, and ensure the compliance of Client Parties and others present in the Client Area with, all Relmada Information Systems and physical security policies and procedures. Client shall not use the Client Area or any Client Services as described on Exhibit B in any manner that violates any applicable law, regulation or other legal requirement or that could cause Relmada to fail to comply with any law or regulation applicable to it or its business. The services provided to Client, including without limitation the Client Services, are provided to Client solely to enable Client to perform its business and shall not be used for any other purpose.

Relmada shall not, and shall not permit any Relmada employee or visitor to, access or attempt to access any records, confidential information, systems, or communications of Client and shall not access the Client Area except as permitted by this Agreement or the Base Lease.

- (b) <u>Client Alterations.</u> Client shall make no alterations, installations, additions, or improvements in or to the Client Area without Relmada's prior written consent, which shall in Relmada's sole discretion.
- (c) <u>Furnishings.</u> Client shall use its own equipment and furniture, which are and shall remain the property of Client, with the exception of a photocopier [INSERT DESCRIPTION] which shall be shared by Client and Relmada, which is and shall remain the property of Relmada.
- (d) <u>Common Areas.</u> Client shall have the right of access and use of common area of the Base Lease Premises. Client shall follow Rules and Regulations set forth or hereafter adopted by Relmada and/or the Landlord for the use of the Common Areas.
- (e) <u>Surrender of Client Area.</u> Upon the Expiration Date or sooner termination of this Agreement, Client shall (i) peacefully quit and surrender the Client Area to Relmada in the condition the Client Area was in on the Commencement Date, broom clean, in good order and condition, ordinary wear and tear expected and (ii) remove from the Client Area at its sole expense all of its personal property.

- 5. CONDITION OF CLIENT AREA. The Client Area is licensed to Client, and Client hereby accepts the Client Area, in its "AS IS" and "WITH ALL FAULTS" condition, without warranties, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. The taking of possession of the Client Area by Client shall be conclusive evidence that as against Relmada and Landlord (i) Client accepts the Client Area as suitable for the purposes for which same is to be used; (ii) Clients accepts the Client Area and each and every part and appurtenance thereof as being in good and satisfactory condition; and (iii) Clients waives any defects in the Client Area and its appurtenances. Neither Landlord nor Relmada shall not be liable to Client or any of its agents, employees, licenses, servants or invitees for any injury or damage to person or property caused in whole or in part by the condition or deign or by any defect in the Client Area or its systems and equipment, and Client, with respect to itself and its agents, employees, licenses, servants, or invitees, hereby expressly assumes all risks or injury or damage to person or property, either proximate or remote, by reason of the condition of the Client Area.
- **6. SIGNAGE.** Relmada shall endeavor to request Landlord to place Client's name on the Building Directory and on the elevator lobby of the Building, if and only if the Building elects to have a Building Directory and/or a directional sign on the elevator lobby, and if to the same extent as may be permitted pursuant to the Base Lease.
- (i) Client shall not exhibit, inscribe, paint or affix any sign, advertisement, notice or other lettering on any portion of the Building or the outside of the Base Lease Premises without the prior written consent of Relmada in each instance, which shall be at Relmada's sole discretion in each instance.
- (ii) All signage or other lettering must have prior written approval by Relmada (in its sole discretion), and shall thereafter be installed by Client at Client's sole cost and expense. Upon installation of any such signage or other lettering, such signage or lettering shall not be removed, changed or otherwise modified in any way without Relmada's prior written approval (in its sole discretion).
- (iii) Client shall not exhibit, inscribe, paint or affix on any part of the Premises or the Building visible to the general public any signage or lettering including the words "temporary" or "personnel".
- (iv) Any signage, advertisement, notice or other lettering which shall be exhibited, inscribed, painted or affixed by or on behalf of Client in violation of the provisions of this Subsection may be removed by Landlord and/or Relmada and the cost of any such removal shall be paid by Client as Additional Service Fees.
- (v) Client shall not permit any machinery, equipment, sign, banner or any other thing to protrude from the Premises to the exterior of the Building beyond any plane of the exterior windows of the Premises or beyond the Premises within the interior of the Building.
- (vi) Client shall have no right to use any window in the Premises for any sign or other display that is designed principally for advertising or promotion.

7. SERVICES.

(a) <u>Basic Services.</u>

(i) Utility services. Utility services include normal and customary electricity, water, gas, heat and wastewater service, to the same extent and at the same rate as provided pursuant to the Base Lease.

- (ii) Janitorial services in the Client Area, to the same extent and at the same rate as provide pursuant to the Base Lease.
 - (iii) Use of conference rooms on a limited, as available basis.
 - (iv) Use of the common kitchen facilities.
- (v) Internet services to the same extent and at the same rate as provided pursuant to the Base Lease or otherwise charged to Relmada. Incremental telecommunications charges, including but not limited to, international calling, conference calling, and other like costs are at the Client's sole costs and expenses.
- (b) <u>Trash Removal/Building Access.</u> The terms and provisions regarding trash Removal and Building Access as provided under the Base Lease, shall be incorporated herein and Client covenants and agrees, at its sole cost and expense, to comply with all such provisions as the same may be amended from time to time.
- (c) After Hours and Additional Service Fee. Ordinary Building Hours" are 8:30 a.m. to 6:00 p.m. on business days, Monday through Friday, except Holidays, or such other dates and times set by Landlord from time to time. Any request for after hour services such as air-conditioning, heating, freight elevator services or additional janitorial services must be coordinated with the designated Relmada representative. All after hours and additional Service Fees are at the cost and expense of the Client. As of the date of this Agreement, the current Landlord's charge for: (a) heat during Overtime Periods is \$300.00; (b) air conditioning during Overtime Periods is \$500.00 per hour and (c) freight elevator during Overtime Periods is \$150.00 per hour (and must be used in minimum four (4) hour increments).
- (d) <u>Service Interruptions.</u> Any failure or defect in Relmada's hereinabove described service shall not be construed as an eviction of Client nor entitle Client to any reduction, abatement, offset, or refund of Service Fees or to any damages from Relmada. Relmada shall not be in breach or default under this Agreement for any such failure or defect. Relmada shall notify Landlord of such failure or defect after Relmada receives written notice thereof and request Landlord remedy/repair such failure or defect. Under no circumstances shall Relmada have any liability for landlord's failure to provide and services and make any repairs to the Client Area.
 - (e) Parking. Client acknowledges that Relmada does not provide parking to Client.
- 8. CLIENT REPAIRS. Client shall, at Client's sole cost and expense, keep the Client Area in good condition and repair, ordinary wear and tear accepted. Any injury or damage to the Client Area, or the appurtenances or fixtures thereof, caused by or resulting from the act, omission, or neglect of Client or Client's officers, employees, agents, contractors or invitees ("Client's Parties") shall be repaired or replaced by the Client. If Client fails to maintain the Client Area or fails to repair or replace such damage, Relmada may, but shall not be obligated to, cause such repair or replacement to be done, as Relmada deems necessary, and Client shall reimburse Relmada for all reasonable third party costs related thereto within ten (10) business days following Relmada's demand therefore.

9. SUPPLIES/MISCELLANEOUS REIMBURSEMENT. Client shall reimburse Relmada, upon demand, for Client's "pro rata share" of all costs of shared office supplies (by way of example only, items such as copy paper, ink, toner, etc.) and pantry items purchased by and/or charged to Relmada. To the extent that Client uses any services or supplies provided by Relmada but not otherwise included in this Agreement, Client shall reimburse Relmada, upon demand, for Client's "pro rata share" of the same. In addition, Client shall reimburse Relmada for Client's "pro rata share" of any items, charges and costs billed to Relmada as a result of, or in connection with occupancy of the Base Lease Premises; provided, however, that any items, charges and costs resulting from Client's sole usages, requests, acts and/or omissions (such as security cards, keys, etc...) shall be paid in their entirety by Client.

10. INSURANCE AND INDEMNIFICATION.

(a) <u>Insurance.</u> Client shall obtain and thereafter maintain during the Term, on or before the Commencement Date, insurance coverage as required pursuant to the Base Lease.

All such policies shall contain a provision that the insurance company will not cancel or refuse to renew the policy, or change in any material way the nature or extent of the coverage provided by such policy, without first giving Relmada at least thirty (30) days' written notice by certified mail, return receipt requested, which notice shall contain the policy number and the names of the insureds and policy holder. Prior to the time such insurance is first required to be carried by Client and thereafter at least thirty (30) days prior to the termination of any existing policy, Client shall deliver to Relmada a certificate evidencing the effectiveness of the insurance policies required to be maintained hereunder. Each policy required hereunder shall contain a clause that the policy and the coverage evidenced thereby shall be primary, and that any coverage carried by Relmada shall be excess insurance. The limits of the insurance required under this Article shall not limit the liability of Client under this Agreement. In the event that Client fails to continuously maintain insurance as required hereby, Relmada may, at its option and without relieving Client of any obligation hereunder, order such insurance and pay for the same at the expense of Client. In such event, Client shall repay the amount expended by Relmada, with interest thereon, as Additional Service Fee. Client acknowledges that neither Landlord nor Relmada will carry insurance on and shall not be responsible for damage to, Client's Alterations, fixtures, furnishings, equipment or other property, and that neither Landlord nor Relmada shall not carry insurance against, or be responsible for any loss suffered by Client due to, interruption of Client's business.

- (b) <u>Indemnification.</u> Neither Landlord nor Relmada shall be responsible or liable to Client, or to any person claiming through Client, and Client shall indemnify and hold harmless each of Landlord and Relmada, from and against any and all liability, damages, actions, claims, costs, and expenses (including reasonable attorneys' fees) of whatever nature caused to Landlord and/or Relmada by an act, omission, neglect, or otherwise, of Client, its agents or employees, arising in connection with this Agreement, Client's performance of its obligations and duties under this Agreement, or Client's use of the Building and the Client Area, including without limitation (a) any loss of, damage or injury to, any property at any time in or on Client Area or in or on the Building from theft, fire, bursting pipes, leakage, dampness, or any other cause whatsoever or (b) for any injury, including death, to any Client's employees, agents, or invites at the Client Area or any part of the Building, caused by the Client.
- (c) <u>Waiver of Subrogation.</u> Relmada and Client waive any and all rights of recovery, claim, action or cause of action against each other, its agents, officers, or employees for any loss or damage that may occur to the Client Area, any improvements thereto, or any personal property therein by reason of any casualty required to be insured against under the terms of this Agreement or the Base Lease and covenants that no insurer shall hold any rights of subrogation against such other party.
- (d) <u>Casualty.</u> If the Building, the Base Lease Premises and/or the Client Area, or any portion thereof shall be damaged by fire or other casualty, the applicable terms and provisions of the Base Lease shall apply.

(e) <u>Condemnation.</u> If any part of the Building is taken for any public or quasi-public use, by right of eminent
domain or otherwise, or is sold in lieu of condemnation, then either party hereto shall have the right, at its option, to terminate this
Agreement as of the date when physical possession of the Building is taken by the condemning authority. All amounts awarded shall
belong to Landlord and/or Relmada, and Client shall not be entitled to, and expressly assigns all claims, rights, and interests to, any such
compensation to Landlord.

- (f) <u>Limitation on Liability of Relmada.</u> Notwithstanding anything stated or implied to the contrary in this Agreement, the liability of Relmada to Client for any default by Relmada under the terms of this Agreement shall be limited to the interest of Relmada in the Base Lease, it being intended that Relmada or Relmada's officers, employees, agents, contractors and invitees shall not be personally liable for any default, judgment on account of any default, or deficiency following a judicial foreclosure on the Base Lease.
- 11. ENTRY. Upon reasonable prior notice to Client (except in the case of emergencies), Landlord or Landlord's employee's agents and contractors and/or Relmada or Relmada's officers, employees, agents, contractors and invitees, as the case may be, shall have the right to enter the Client Area to fulfill their respective obligations under the Base Lease or this Agreement.
- 12. SUBORDINATION. This Agreement is and shall be subject and subordinate to Base Lease which may now or hereafter encumber or affect the Client Area or the Building, and to all renewals, modifications, consolidations, replacements and extensions of the Base Lease.
- **13. ASSIGNMENT AND SUBLETTING.** Client shall not, voluntarily or by operation of law, sublease the Client Area or any part thereof, or assign, transfer, mortgage, pledge, or encumber this Agreement.

14. DEFAULT.

- (a) <u>Default by Client.</u> Each of the following shall constitute a "Default" by Client:
- (i) The failure of Client to pay any sum when due, and such failure continues for a period of five (5) days after written notice thereof has been given by Relmada to Client; provided, however, that Relmada shall not be required to give such written notice more than two (2) times in any one calendar year.
- (ii) Client shall become insolvent or unable to pay its debts as they become due, or Client notifies Relmada that it anticipates either condition; or Client files a petition under any section or chapter of the United States Bankruptcy Code, as amended from time to time; or a petition shall be filed against Client under such statute or Client notifies Relmada that it knows such a petition will be filed and such petition is not withdrawn or dismissed within sixty (60) days of filing; or a receiver or trustee is appointed to take possession of substantially all of Client's assets located at the Client Area or of Client's interest in this Agreement is legally attached or seized
- (iii) Client shall fail to perform, in whole or in part, any of the other obligations under this Agreement and such failure or non-performance continues for a period of five (5) days after written notice thereof has been given by Relmada or Client. Or
 - (iv) Client shall vacate or abandon all or any portion of the Client Area.

- Relmada's Right upon Default by Client. If a Default occurs, then at any time thereafter, prior to the curing thereof, with or without notice or demand, Relmada may exercise any and all rights and remedies available to Relmada under this Agreement, at law, or in equity, including without limitation termination of this Agreement. In the event of a Default, Relmada may, with or without additional notice and without court proceedings, re-enter by changing the locks and repossess the Client Area and remove all persons and property there from, and Client hereby agrees to surrender possession of the Client Area and waives any claim arising by reason thereof or by reason of issuance of any distress warrant or writ of sequestration and agrees to hole Relmada harmless from any such claims. In the event Relmada retakes possession of the Client Area, Relmada shall have the right, but not the duty, to remove all or any art of the personal property located therein, and may place the same in storage at a public warehouse at the expense and risk of the Client.
- (c) <u>Costs.</u> If either party defaults under this Agreement, and the rights and remedies of the respective parties are contested at law or in equity (or through arbitration, if both parties agree to arbitration), then the losing party shall reimburse the prevailing party for all of its reasonable attorney's fees and court costs, plus interest.
- (d) <u>Interest.</u> All late payments of any amounts due under this Agreement shall bear interest from the date due until paid at four percent (4%) interest or at prime plus three percent (prime + 3%) whichever is the largest.
- (e) <u>No Implied Waiver.</u> The failure of Relmada to insist at any time upon the strict performance of the covenant or agreement or to exercise any option, right, power or remedy contained in this Agreement shall not be construed as a waiver thereof. The waiver of any violation of any term, covenant, agreement or condition contained in this Agreement shall not prevent a subsequent act, which would have originally constituted a violation, from having all the force and effect of an original violation. No express waiver shall affect any condition other than the one specified in such waiver and that one only for the time and in the manner specifically stated. A receipt by Relmada of any Service Fee with knowledge of the breach of any covenant or agreement contained in this Agreement shall not be deemed a waiver of such breach, and no waiver by Relmada of any provision of this Agreement shall be deemed to have been made unless expressed in writing and signed by Relmada.
- 15. COMPLIANCE WITH LAWS. Client shall comply with all laws, ordinances, notices, rules and regulations, and orders of any Governmental Agencies, applicable to Client's business then in effect or thereafter enacted or passed during the Term of the Agreement insofar as the Client Area is concerned.
- **16. AMENDMENT.** The Agreement may not be amended or modified except by written agreement signed by both Relmada and Client.
- 17. HOLDOVER. If Client shall hold over or remain in possession of any portion of the Client Area for a period of thirty (30) days beyond the expiration of the Term or the earlier termination of this Agreement, then the Client shall be deemed tenant-at-will, terminable at any time, and shall be subject to all of the obligations of Relmada in the event of a holdover under the Base Lease.
- **18. PARTIES AND SUCCESSORS.** Subject to the limitations and conditions set forth elsewhere herein, this Agreement shall bind and inure to the benefit of the respective successors, legal representatives, and permitted assign of the parties hereto.

19. NOTICE. Except as otherwise provided herein, any notice or other communications which Relmada or Client may desire or be required to give to the other shall be in writing and shall be deemed sufficiently given or rendered if (i) delivered on person, or (ii) delivered by a courier service as evidenced by a written receipt for same, or (iii) sent by registered or certified mail, return receipt requested, addressed as follows:

To Relmada: Relmada Therapeutics, Inc.

275 Madison Avenue, Suite 702

New York, NY 10016 Attn: Sergio Traversa, CEO Email: <u>st@relmada.com</u> Tel: 646-677-3854

To Client: Actinium Therapeutics, Inc.

275 Madison Avenue, Suite 702

New York, NY 10016

Attn: Kaushik J. Dave Ph.D., MBA Email: kdave@actiniumpharma.com

Tel: 732-609-1411

Or at such other address(es) as the other party shall designate from time to time by prior written notice or (iv) sent by telefax as evidenced by a confirmation of transmission produced by the sender's telefax machine, and such notice shall be effective when the same is faced or is first attempted to be delivered as herein provided.

20. OVERNING LAW.

- (a) This Agreement shall be governed by and construed in accordance with the laws of the State of New York.
- (b) Any controversy or claim arising out of or relating to this Agreement or the breach thereof (including, any claim based upon a state or federal stature) will be settled by arbitration, before one arbitrator in accordance with the rules of the American Arbitration Association then in effect and judgement upon the award rendered by the arbitrator may be entered in any court having jurisdiction. The arbitrator will be selected by the parties, from a panel of attorney arbitrators experienced with the healthcare industry. Any arbitration shall be held in New York, New York, at the offices of the American Arbitrator Association. The language of arbitration shall be English. The arbitrator will have no authority to award damages not measured by the prevailing party's actual damages, and may not, in any event, make any relief, finding, or award that does not conform to the terms and conditions of this Agreement. The parties shall share equally the costs of the arbitration and each party shall bear its own attorneys' fees unless otherwise expressly authorized in this Agreement. Either party, before or during or after any arbitration, may apply to a court having jurisdiction for a temporary, provisional or permanent order of relief to protect its interests. Prior to initiation of arbitration, the aggrieved party will give the other party written notice, in accordance with this Agreement, describing the claim and amount as to which it intends to initiate arbitration.
- 21. INABILITY TO PERFORM. Notwithstanding Section 23 below, whenever a period of time is herein prescribed for the taking of any action by Relmada, Relmada shall not be liable or responsible for, and shall be excluded from the computation of such period of time, any delays due to strike, riots, acts of Gods, shortage of labor or materials, war governmental laws, regulations or restrictions, or any other cause whatsoever beyond the control of Relmada, and such nonperformance or delay in performance shall not constitute a total of partial eviction, constructive or otherwise.
- **22. ENTIRE AGREEMENT.** This Agreement, including all Exhibits attached hereto (which Exhibits are hereby incorporated herein and shall constitute a portion hereof), contains the entire agreement between Relmada and Client with respect to the subject matter hereof.

- 23. TIME OF ESSENCE. Time is of the essence of this Agreement and each and all of its provisions in which performance is a factor.
- **24. SEVERABILITY.** It is the intention of the parties hereto that if any provision of this Agreement is capable of two constructions, one of which would render the provision invalid and the other of which would render the provision valid, then the provision shall have the meaning which renders it valid. If any term or provision of this Agreement, or the application thereof to any person or circumstance, shall to any extent be invalid or unenforceable, the remainder of this Agreement, or the application of such term or provision to other persons or circumstances, shall not be affected thereby, and each term and provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.
- **25. NO REPRESENTATIONS.** Neither Relmada nor Relmada's officers, employees, agents, and contractors have made any representations or promises with respect to the Client Area except as herein expressly set forth, and no rights, easements, or licenses area acquired by Client by implication or otherwise except as expressly set forth in the provision of this Agreement.
- **26. BASE LEASE EXPIRATION/TERMINATION.** Upon the expiration or termination of the Base Lease, this Agreement shall automatically terminate.
- 27. COUNTERPARTS. This Agreement may be executed in any number of separate counterparts, all of which counterparts taken together shall constitute the entirety of this Agreement.
- 28. CONFIDENTIALITY. Client acknowledges that the terms and conditions of this Agreement are to remain confidential for Relmada's benefit, and may not be disclosed by Client to anyone, by any manner or means, directly or indirectly, without Relmada's prior written consent. The consent by Relmada to any disclosures shall not be deemed to be a waiver on the part of Relmada of any prohibition against any future disclosure.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Relmada and Client have executed this Agreement as of the date first above written.

RELMADA THERAPEUTICS, INC.

By /s/ Kulendiran Purushothaman Name: Kulendiran Purushothaman

Title: Vice President of Finance

ACTINIUM PHARMACEUTICALS, INC.

By /s/ Kaushik J. Dave Name: Kaushik J. Dave Title: Chief Executive Officer

EXHIBIT A

Floor Plan of Premises

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EXHIBIT B

Client Services

- 1. Telephone Equipment, Telephone Numbers, Telecommunication Services
 - VoIP telephone handset with assigned phone one (1) connection per desk.

 Relmada maintains control and any assignment, leasing, or ownership of any and all telephone numbers that may be assigned to Client, and reserves in its sole discretion the right to change or replace any and all phone numbers. The only exception is any telephone numbers that Client has ported to Relmada, in which case, Client retains the right to use those numbers, and port them from Relmada.
 - Local and Long Distance Service free local, local long distance and domestics U.S. long distance (except to Puerto Rico and U.S Virgin Islands) per month. International calling, conference calling, efax and others are at Client's expense.
 - Hot wired internet connection one (1) connection per desk
 - Relmada requires Client to submit paperwork to add and remove connections, and will provide said paperwork to Client upon request.

2. Limitation of Warranties and Damages

- (a) Relmada expressly disclaims all warranties of any kind, whether express or implied.
- (b) Neither Relmada, nor any business affiliates of Relmada makes any warranty that the Client Services will meet Client's requirements, or that the Client Services will be uninterrupted, timely, secure, or error free. However, Relmada will make reasonable efforts to fix any defects in the services.
- (c) Client understands and agrees that any material and/or data downloaded or otherwise obtained through the use of the Client Services is done at Client's own discretion and risk and that Client will be solely responsible for any damage to Client's computer system or loss of data that results from the download of such material and/or data.
- (d) Neither party nor any of their business affiliates shall be liable for any indirect, incidental, special, or consequential damages the other may incur in connection with this Agreement including, but not limited to damages for lost revenue, lost profits, lost use, lost goodwill (or similar financial loss), any payment made to a third party, or for interrupted communications, lost information or data, cost of procurement of substitute goods or services, loss or damages resulting from interception of communications by third parties, or lost profits arising out of or in connection with this Agreement, even if a party has been advised of the possibility of damages, or any claim by any other party. This limitation of damages provision is understood to be an allocation of risk between the parties, which is completely separate and independent from all other provisions of this Agreement.
- (e) Except in the instances of gross negligence, willful misconduct, or unlawful acts on the part of Relmada, including any of Relmada's employees, affiliates or assigns, Client agrees to defend, indemnify, and hold harmless Relmada, their employees, directors, officers, agents, and business affiliates, and their respective successors and assignees from, and against, any and all liabilities, damages, losses, costs and expenses, including attorneys' fees, caused by or arising out of claims based upon the use of Client's account, the content contained in any communications that have been sent or received through Relmada's Client Services or Relmada equipment, or any acts or omissions of Client, including any claim of libel, defamation, unlawful, unfair or deceptive acts or practices, violation of rights of privacy or publicity, loss of service by other subscribers, and infringement of intellectual property or other rights by the contents of its emails.
- (f) Relmada does not represent or warrant to Client that Client will receive continual and uninterrupted service during the Term of this Agreement. In no event shall Relmada be liable to Client for any damages resulting from or related to any failures or delay of Relmada to provide service under this Agreement if such delays or failures are due to strikes, riots, fire, inclement weather, acts of God, theft or vandalism or others caused beyond Relmada's control, as defined by standard practices in the hosting and disaster recovery industry. Relmada will be liable for damages sustained by Client arising from Relmada, including Relmada's employees, its agents, in the event Relmada gross negligence, willful misconduct, or unlawful act.

Subsidiaries

MedActinium, Inc., a Delaware company

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statement on Form S-3 (File No. 333-194768) and Form S-8 (File No. 333-197283) filed with the Securities and Exchange Commission, of our report dated March 11, 2016, relating to the consolidated financial statements of Actinium Pharmaceuticals, Inc. as of December 31, 2015 and 2014 and for each of the three years ended December 31, 2015 and relating to the internal controls over financial reporting for the year ended December 31, 2015, appearing in this Annual Report on Form 10-K of Actinium Pharmaceuticals, Inc.

/s/ GBH CPAs, PC GBH CPAs, PC

www.gbhcpas.com Houston, Texas March 11, 2016

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER PURSUANT TO 18U.S.C SECTION 1350 AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXELY ACT OF 2002

- I, Kaushik J. Dave, certify that:
- 1. I have reviewed this report on Form 10-K of Actinium Pharmaceuticals, Inc. for the fiscal year ended December 31, 2015.
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a–15(e) and 15d–15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a–15(f) and 15d–15(f)) for the registrant and have:
- (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
- (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
- (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Kaushik J. Dave

Kaushik J. Dave President and Chief Executive Officer (Principal Executive Officer)

CERTIFICATION OF PRINCIPAL FINANCIAL AND ACCOUNTING OFFICER PURSUANT TO 18 U.S.C SECTION 1350 AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXELY ACT OF 2002

- I, Kaushik J. Dave, certify that:
- 1. I have reviewed this report on Form 10-K of Actinium Pharmaceuticals, Inc. for the fiscal year ended December 31, 2015.
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a–15(e) and 15d–15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a–15(f) and 15d–15(f)) for the registrant and have:
- (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
- (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
- (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
- (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
- (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
- (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ Kaushik J. Dave

Kaushik J. Dave Interim Chief Financial Officer (Principal Financial and Accounting Officer)

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER, PURSUANT TO 18 U.S.C. SECTION 1350,AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Actinium Pharmaceuticals, Inc. a Delaware corporation (the "Company"), on Form 10-K for the period ended December 31, 2015 as filed with the Securities and Exchange Commission (the "Report"), I, Kaushik J. Dave, Chief Executive Officer of the Company, certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350), that to my knowledge:

(1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Kaushik J. Dave

Kaushik J. Dave Chief Executive Officer (Principal Executive Officer)

CERTIFICATION OF PRINCIPAL FINANCIAL AND ACCOUNTING OFFICER, PURSUANT TO 18 U.S.C. SECTION 1350,AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Actinium Pharmaceuticals, Inc. a Delaware corporation (the "Company"), on Form 10-K for the period ended December 31, 2015 as filed with the Securities and Exchange Commission (the "Report"), I, Kaushik J. Dave, Interim Chief Financial Officer of the Company, certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350), that to my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Kaushik J. Dave

Kaushik J. Dave Interim Chief Financial Officer (Principal Financial and Accounting Officer)