

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-K

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

For the fiscal year ended December 31, 2010

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

Commission File Number: 001-33004



Opexa Therapeutics, Inc.

(Exact Name of Registrant as Specified in Its Charter)

Texas	76-0333165
(State or Other Jurisdiction of Incorporation or Organization)	(IRS Employer Identification No.)
2635 Technology Forest Blvd., The Woodlands, Texas	77381
(Address of Principal Executive Offices)	(Zip Code)

Registrant's Telephone Number, Including Area Code: (281) 272-9331

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

Title of Each Class	Name of Each Exchange on Which Registered
Common Stock, \$.01 par value per share	The NASDAQ Stock Market LLC
Series E Common Stock Purchase Warrants	The NASDAQ Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: None

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

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

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

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

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

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

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the registrant as of June 30, 2010 based upon the closing price as of such date was \$21,792,115.

As of February 28, 2011, 22,998,183 shares of the registrant's common stock, par value \$0.01 per share, were outstanding.

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Tovaxin® is a trademark of Opexa Therapeutics, Inc. All other product and company names are trademarks of their respective owner.

Forward Looking Statements

Statements contained in this report, other than statements of historical fact, constitute "forward-looking statements." The words "expects," "believes," "anticipates," "estimates," "may," "could," "intends," and similar expressions are intended to identify forward-looking statements. In particular, these forward-looking statements may be found, among other places, under the headings "Business," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." These forward-looking statements do not constitute guarantees of future performance. Investors are cautioned that statements which are not strictly historical statements, including, without limitation, statements regarding current or future financial payments, returns, royalties, performance and position, management's strategy, plans and objectives for future operations, plans and objectives for product development, plans and objectives for present and future clinical trials and results of such trials, plans and objectives for regulatory approval, litigation, intellectual property, product development, manufacturing plans and performance, and management's initiatives and strategies, constitute forward-looking statements. Such forward-looking statements are subject to a number of risks and uncertainties that could cause actual results to differ materially from those anticipated. These risks and uncertainties include, but are not limited to, those risks discussed in "Risk Factors," as well as, without limitation, risks associated with: our capital position, our ability to enter into and benefit from a partnering arrangement for our product candidate, Tovaxin, on reasonably satisfactory terms (if at all), and our dependence (if partnered) on the resources and abilities of any partner for the further development of Tovaxin, our ability to compete with larger, better financed pharmaceutical and biotechnology companies, new approaches to the treatment of our targeted diseases, our expectation of incurring continued losses, our uncertainty of developing a marketable product, our ability to raise additional capital to continue our treatment development program and to undertake and complete the pivotal Phase III study in the United States for Tovaxin in RR-MS, the success of our clinical trials, our ability to develop and commercialize products, our ability to obtain required regulatory approvals, our compliance with all Food and Drug Administration regulations, our ability to obtain, maintain and protect intellectual property rights (including for Tovaxin), the risk of litigation regarding our intellectual property rights, the success of third party development and commercialization efforts with respect to products covered by intellectual property rights transferred by us, our limited manufacturing capabilities, our dependence on third-party manufacturers, our ability to hire and retain skilled personnel, our volatile stock price, and other risks detailed in our filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date of this report. We assume no obligation or undertaking to update or revise any forward-looking statements contained herein to reflect any changes in its expectations with regard thereto or any change in events, conditions or circumstances on which any such statement is based. You should, however, review additional disclosures we make in the reports we file with the SEC.

PART I

Item 1. Business.

Overview

Unless otherwise indicated, we use "Opexa," "the Company," "we," "our" and "us" in this annual report to refer to the businesses of Opexa Therapeutics, Inc.

We are a biopharmaceutical company developing personalized cellular therapies with the potential to treat major illnesses, including multiple sclerosis (MS). These therapies are based on our proprietary T-cell technology. Information related to our product candidates is preliminary and investigative. Our product candidates are not approved by the U.S. Food and Drug Administration (FDA).

Our lead product candidate, Tovaxin®, is a personalized T-cell therapeutic vaccine licensed from Baylor College of Medicine, which is in clinical development for the treatment of MS.

Opexa was incorporated in Texas in March 1991. Our principal executive offices are located at 2635 Technology Forest Blvd., The Woodlands, Texas 77381, and our telephone number is (281) 775-0600.

T-Cell Therapy and Tovaxin®

Tovaxin® is a novel T-cell immunotherapy positioned to enter Phase III clinical development for the treatment of relapsing remitting MS (RR-MS). It is a personalized therapy that is specifically tailored to each patient's disease profile. Tovaxin is manufactured using our proprietary method for the production of a patient-specific T-cell immunotherapy, which encompasses the collection of blood from the MS patient, isolation of peripheral blood mononuclear cells, generation of an autologous pool of myelin-reactive T-cells (MRTCs) raised against selected peptides from myelin basic protein (MBP), myelin oligodendrocyte glycoprotein (MOG) and proteolipid protein (PLP), and the return of these expanded, irradiated T-cells back to the patient. These attenuated T-cells are reintroduced into the patient via subcutaneous injection to trigger a therapeutic immune system response.

Summary of TERMS Phase IIb Clinical Trial Data

Tovaxin for Early Relapsing Multiple Sclerosis (TERMS) was a Phase IIb clinical study of Tovaxin in RR-MS patients. Although the study did not show statistical significance in its primary endpoint (the cumulative number of gadolinium-enhanced brain lesions using MRI scans summed at various points in the study), the study showed compelling evidence of efficacy in various clinical and other MRI endpoints.

The TERMS study was a multi-center, randomized, double blind, placebo-controlled trial in 150 patients with RR-MS or high risk Clinically Isolated Syndrome. Patients received a total of five subcutaneous injections at weeks 0, 4, 8, 12 and 24. Key results from the TERMS trial include:

- In the modified intent to treat patient population (n=142), the annualized relapse rate (ARR) for Tovaxin-treated patients was 0.214 as compared to 0.339 for placebo-treated patients, which represented a 37% decrease in ARR for Tovaxin as compared to placebo in the general population;
- In a prospective group of patients with more active disease (ARR>1, n=50), Tovaxin demonstrated a 55% reduction in ARR as compared to placebo, and a 73% reduction in relapse rate was observed in Tovaxin patients in this population compared to placebo during the 24-week period following the administration of the full course of treatment; and
- In a retrospective analysis in patients naïve to previous disease modifying treatment (*i.e.*, patients who had not previously used any drugs other than steroids to treat their disease), the results showed that patients, when treated with Tovaxin, had a 64% reduction in ARR versus placebo (p=0.046, n=70).

Tovaxin has demonstrated a favorable side effect profile throughout the clinical development program. In four clinical trials to date, including the Phase IIb TERMS trial, there have been no serious adverse events associated with Tovaxin treatment. The most common side effect is mild to moderate irritation at the site of injection, which is typically resolved in 24 hours. We believe the favorable safety profile of Tovaxin is a key differentiator when compared to marketed or other developmental MS drugs.

T-Cell Therapy Regulatory and Development Status

During 2010, we continued to analyze the data from the 2008 TERMS Phase IIb study and we evaluated options for the further clinical development of Tovaxin. In late 2010, we completed face-to-face discussions with the FDA regarding our planned development program for Tovaxin. Based on positive feedback from the FDA, we believe that we are now positioned from a regulatory perspective to advance with a pivotal Phase III clinical study of Tovaxin in RR-MS, subject to securing the appropriate financing to conduct such a study. We are in the process of completing necessary preparations to be able to initiate such a study.

Our recent discussions with the FDA consisted of two separate meetings to review both the complete Tovaxin manufacturing process as well as the prospective clinical trial plan for Tovaxin. The first meeting focused on the improvements and modifications we have incorporated into Tovaxin's manufacturing and CMC (chemistry, manufacturing and control) process in an effort to improve efficiency, reduce overall costs and implement commercial stage requirements. As part of this meeting, we presented data and details supporting an optimized manufacturing process, including a transition to fewer process steps, comparability plans and complete reagent profiles. The FDA agreed that the optimized Tovaxin manufacturing process would meet the requirements for a pivotal Phase III clinical trial, although additional supporting data is expected to be submitted to the FDA prior to initiating such a study.

The second meeting was an "end of Phase II" clinical meeting in which we presented our rationale and trial design for a Phase III pivotal study with Tovaxin in RR-MS patients. The FDA concurred in general with our proposed clinical trial protocol, including the patient population, end points, patient numbers and overall trial design. The FDA also offered several recommendations to further enhance such a Phase III trial.

We currently intend to use the net proceeds of approximately \$7.6 million from our February 2011 public offering for general corporate purposes (including working capital and operational purposes) and to prepare for and proceed toward the initiation of a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, although the proceeds from such offering together with our existing resources are not adequate to permit us to proceed materially beyond the initiation of such a study (*i.e.*, the dosing of the first patient) or to complete such study or any significant portion of it. A pivotal Phase III clinical study in the United States of Tovaxin in RR-MS is expected to involve 240 patients and take approximately two and one-half years to complete. If we are able to commence such a study in the second half of 2011, the costs of such study as well as the ongoing expenses of our operations through the expected completion date of such study are estimated at approximately \$35 million. Unless we secure at least a substantial portion of the additional resources that will be necessary to complete the planned Phase III study and support our operations during the pendency of such study, or we are reasonably confident that such resources will be secured, we would likely not proceed with the initiation of such study.

Given our need for substantial amounts of capital to undertake a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, we intend to continue to explore potential opportunities and alternatives to obtain the significant additional resources that will be necessary to complete the planned Phase III study and to support our operations during the pendency of such study. In addition to one or more additional financings, these opportunities and alternatives may include a partnering arrangement with a large biotech or pharmaceutical company. There can be no assurance that any such financings or partnering arrangement can be consummated on acceptable terms, if at all.

Assuming we are able to achieve financing which is sufficient to support the planned Phase III study in the United States and to support our operations during the pendency of such study, we are also preparing for a second pivotal Phase III clinical study in Europe. Any such second study would also depend upon the availability of sufficient resources.

Other Opportunities

Our proprietary T-cell technology has enabled us to develop intellectual property and a comprehensive sample database that may enable discovery of novel biomarkers and other relevant peptides to be used to treat MS patients.

Stem Cell Therapy

In 2009, Novartis Pharmaceuticals acquired our stem cell technology platform, which had been in early preclinical development, and took over all future responsibilities and opportunities for this technology, although we retain an option on certain manufacturing rights. As part of the transaction, we were paid an upfront fee of \$3 million and a milestone payment of \$500,000 for certain technology transfer activities. We remain eligible to receive a second technology transfer milestone fee in addition to potential clinical and commercial milestones and royalty payments from the sale of any products resulting from the use of the technology. However, there can be no assurance that we will receive any future payments in respect of the stem cell technology.

Our T-Cell Platform

Multiple Sclerosis—Background

In the U.S., approximately 400,000 people suffer from MS, a chronic progressive autoimmune disease of the central nervous system (CNS) that is caused by myelin autoreactive T-cells progressively eroding the myelin that surrounds and insulates nerve fibers of the brain and spinal cord resulting in varying amounts of disability. Globally, there are approximately 2.5 million MS patients representing a drug market of approximately \$9 billion in 2008. The U.S. market accounted for slightly more than 65 percent of global MS drug sales in 2008. The MS drug market is forecasted to reach as much as \$16 billion by 2016.

MS remains a challenging autoimmune disease to treat because the pathophysiologic mechanisms are diverse, and the chronic, unpredictable course of the disease makes it difficult to determine whether the favorable effects of short-term treatment will be sustained. Therapies that are easy to use and can safely prevent or stop the progression of disease represent the greatest unmet need in MS.

In recent years, the understanding of MS pathogenesis has evolved to comprise an initial, T-cell-mediated inflammatory activity followed by selective demyelination (erosion of the myelin coating of the nerve fibers) and then neurodegeneration. The discovery of disease-relevant immune responses has accelerated the development of targeted therapeutic products for the treatment of the early stages of MS.

Some subjects, who have the appropriate genetic background, have increased susceptibility for the *in vivo* activation and expansion of myelin autoreactive T-cells. These myelin autoreactive T-cells may remain dormant, but at some point they are activated in the periphery, thus enabling them to cross the blood-brain barrier (BBB) and infiltrate the healthy tissue of the brain and spinal cord. The cascade of pathogenic events leads to demyelination of protrusions from nerve cells called axons, which causes nerve impulse transmissions to diffuse into the tissue resulting in disability to the subject.

Current Therapy for Multiple Sclerosis

Current MS disease modifying drugs on the market are mostly palliative and generally work by modulation or suppression of the immune system. These therapies for MS are dominated by three forms of interferon that when used as therapies, require frequent subcutaneous or intramuscular injections (Avonex®, Betaseron® and Rebif®). Copaxone® is an immunomodulator that is administered daily. Novantrone® (mitoxanthrone) is an immunosuppressive drug that can only be given four times per year with a lifetime limit of 8 to 12 doses. All of the current therapies only claim to slow the progression of MS and present significant patient compliance challenges because of the dosing schedule, limited decrease in relapse rate and side effects profile. The interferon formulations produce severe flu-like symptoms, injection site reactions, infection and neutralizing antibodies (ranging from 5% to 45%) that limit the efficacy of treatment. Copaxone® potential side effects include significant injection site reactions, while Novantrone® potential side effects include infections, bone marrow suppression, nausea, hair thinning, bladder infections, and mouth sores. These drugs must be administered daily to weekly. Tysabri®, a selective adhesion molecule inhibitor (an alpha 4 integrin antagonist), represents another class of MS drugs that works by preventing immune system cells from crossing the BBB and from moving into the CNS. Tysabri® requires a once per month infusion and has been reintroduced to the market after being originally withdrawn in 2005 based on safety concerns over several patient deaths due to a virally mediated brain inflammation. Gilenya®, the first oral therapy for MS, was approved by the FDA in 2010. This product is administered daily and potential side effects include bradycardia (slow heart rate), increased risk of infections, vision problems (macular edema), decreased pulmonary functioning and liver toxicities.

Tovaxin for Multiple Sclerosis

We believe that Tovaxin works selectively on the myelin autoreactive T-cells by harnessing the body's natural immune defense system and feedback mechanisms to deplete these T-cells and induce favorable immune regulatory responses by rebalancing the immune system. Tovaxin is manufactured by isolating the MRTCs from the blood, expanding them to a therapeutic dose *ex-vivo*, and attenuating them with gamma irradiation to prevent DNA replication. These attenuated MRTCs are then injected subcutaneously into the body in therapeutic dosages. The body recognizes specific T-cell receptor molecules of these MRTCs as foreign and initiates an immune response reaction against them, not only destroying the injected attenuated MRTCs, but also the circulating, myelin autoreactive T-cells carrying the peptide-specific T-cell receptor molecules. In addition, T-cell activation molecules on the surface of the activated MRTCs used as vaccine induce favorable immune regulatory responses, which promote anti-inflammatory responses. Because the therapy uses an individual's own cells, the only directly identifiable side effect observed thus far is injection site reactions which typically are minor and generally clear within 24 hours.

We believe that this technology platform may have applications in other T-cell mediated autoimmune diseases such as Crohn's disease, psoriasis, rheumatoid arthritis and Type 1 diabetes.

Tovaxin Manufacturing

We manufacture Tovaxin in our own current Good Manufacturing Practice (cGMP) facility. The technology used to produce Tovaxin is similar to that of traditional microbial vaccine technology, where the pathogen (or the attenuated derivative) is used to derive the protective antigens necessary to induce protective immune responses.

Personalized Therapy

The clinical symptoms of MS are the result of an immune attack against the myelin sheaths that insulate nerves in the brain and spinal chord that constitute the CNS. A subset of white cells, called T-cells, is the primary orchestrator of this immunity. Tovaxin is an immunotherapy representing an enriched source of the patient's own MRTCs that are used to invoke a protective response to limit further damage to the myelin sheaths within the patient's CNS. Immunity to myelin in terms of the specificity of T-cells for myelin proteins varies between individuals. Therefore, Tovaxin is further personalized by screening the immune response, and detecting those proteins that are preferentially targeted by T-cells on a per patient basis. This is achieved using protein fragments, called peptides, from the three major myelin proteins (MOG, MBP and PLP) as targets to finely map immunity to myelin. A limited number of peptides are chosen to which immunity appears greatest, and the Tovaxin product is manufactured against these peptides. Thus

Tovaxin is not only manufactured for each patient, but it is also tailored against each patient's personalized T-cell immune response to myelin. In preparing Tovaxin for a patient, the patient-specific MRTCs are expanded from a unit of whole blood using the selected myelin peptides in the presence of growth factors. Once sufficient numbers of T-cells have been propagated to support the clinical dosing regimen, they are frozen down as individual Tovaxin doses. Prior to clinical use, a frozen Tovaxin dose is thawed, formulated, and attenuated (by irradiation) to render the T-cells unable to replicate, but viable for therapy. After quality control and quality assurance, each dose is shipped overnight to the clinical site for administration over a defined schedule of five subcutaneous injections. Patients will be treated with a new vaccine series (five subcutaneous injections) each year based on their altered disease profile or epitope shift.

Tovaxin Safety and Tolerability

We believe that Tovaxin treatment selectively targets and depletes the pathogenic T-cell population. It is not a general immune suppressant and, accordingly, it is not associated with the serious side effects seen by those MS treatments that function by systemically suppressing the immune system. In clinical trials conducted to date, there have been no serious adverse events associated with Tovaxin treatment. We believe that this favorable safety profile may be an important advantage as patient compliance represents a significant challenge due to serious side effects associated with many currently available and in development MS treatments.

Licenses, Patents and Proprietary Rights

We believe that proprietary protection of our technologies is critical to the development of our business. We will continue to protect our intellectual property through patents and other appropriate means. We rely upon trade-secret protection for certain confidential and proprietary information and take active measures to control access to that information. We currently have non-disclosure agreements with all of our employees, consultants, vendors, advisory board members and contract research organizations.

The initial T-cell vaccination technology was originally discovered by Dr. Jingwu Zang of Baylor College of Medicine in Houston, Texas. Baylor granted Opexa an exclusive, worldwide right and license to commercially exploit such technology, which includes rights to issued patents and pending patent applications owned by Baylor. Opexa has since expanded the development of technology related to Tovaxin and T-cell technology and has filed patent applications with respect thereto, from which several patents have issued (including with respect to the specificity and veracity of antigens that have been discovered). There is also substantial proprietary know-how surrounding the Tovaxin development and manufacturing processes that remains a trade secret. Consequently, we consider barriers to entry, relative to Tovaxin for the treatment of MS, to be high.

Our patent portfolio tracks our scientific development programs in autoimmune disease treatments, with an initial focus on MS. We believe that our scientific platform is adaptable in that any disease with known specific antigens, such as Rheumatoid Arthritis, may be a candidate for treatment, and we believe that our patent strategy is readily extendable to encompass these additional indications.

Competition

The development of therapeutic agents for human disease is intensely competitive. Major pharmaceutical companies currently offer a number of pharmaceutical products to treat MS and other diseases for which our technologies may be applicable. Many pharmaceutical and biotechnology companies are investigating new drugs and therapeutic approaches for the same purposes, which may achieve new efficacy profiles, extend the therapeutic window for such products, alter the prognosis of these diseases, or prevent their onset. We believe that our products, when and if successfully developed, will compete with these products principally on the basis of improved and extended efficacy and safety and their overall economic benefit to the health care system. We expect competition to increase. We believe that our most significant competitors will be fully integrated pharmaceutical companies and more established biotechnology companies. Smaller companies may also be significant competitors, particularly through collaborative arrangements with large pharmaceutical or biotechnology companies. Some of our primary competitors in the current treatment of, and in the development of treatments for, MS include Biogen-Idex, Elan, Merck-Serono, Teva, Bayer/Schering AG and Novartis.

Sales and Marketing

We may choose to partner with large biotech or pharmaceutical companies for sales and marketing, if and when applicable, or alternatively develop our own sales force to market our MS cell therapy products in the U.S. Given the concentration of MS treatment among a relatively small number of specialized neurologists in the U.S., we believe that a modest size sales force would be sufficient to market an MS product in the U.S.

We would consider partnering with large biotech and pharmaceutical companies, if and when applicable, to assist with marketing and sales of an MS T-cell therapy product outside the U.S.

Government Regulation

Our research and development activities and the future manufacturing and marketing of our potential products are, and will be, subject to regulation for safety and efficacy by a number of governmental authorities in the U.S. and other countries.

In the U.S., pharmaceuticals, biologicals and medical devices are subject to FDA regulation. The Federal Food, Drug and Cosmetic Act, as amended, and the Public Health Service Act, as amended, the regulations promulgated thereunder, and other federal and state statutes and regulations govern, among other things, the testing in human subjects, manufacture, safety, efficacy, labeling, storage, export, record keeping, approval, marketing, advertising and promotion of our potential products. Product development and approval within this regulatory framework takes a number of years and involves significant uncertainty combined with the expenditure of substantial resources.

FDA Approval Process

We will need to obtain FDA approval of any therapeutic product we plan to market and sell. The FDA will only grant marketing approval if it determines that a product is both safe and effective. The testing and approval process will require substantial time, effort and expense. The steps required before our products may be marketed in the U.S. include:

Preclinical Laboratory and Animal Tests. Preclinical tests include laboratory evaluation of the product candidate and animal studies in specific disease models to assess the potential safety and efficacy of the product candidate as well as the quality and consistency of the manufacturing process.

Submission to the FDA of an Investigational New Drug Application, or IND, Which Must Become Effective Before U.S. Human Clinical Trials May Commence. The results of the preclinical tests are submitted to the FDA, and the IND becomes effective 30 days following its receipt by the FDA, as long as there are no questions, requests for delay or objections from the FDA. The sponsor of an IND must keep the FDA informed during the duration of clinical studies through required amendments and reports, including adverse event reports.

Adequate and Well-Controlled Human Clinical Trials to Establish the Safety and Efficacy of the Product Candidate. Clinical trials, which test the safety and efficacy of the product candidate in humans, are conducted in accordance with protocols that detail the objectives of the studies, the parameters to be used to monitor safety and the efficacy criteria to be evaluated. Any product candidate administered in a U.S. clinical trial must be manufactured in accordance with cGMP.

The protocol for each clinical study must be approved by an independent Institutional Review Board, or IRB, at the institution at which the study is conducted, and the informed consent of all participants must be obtained. The IRB will consider, among other things, the existing information on the product candidate, ethical factors, the safety of human subjects, the potential benefits of the therapy and the possible liability of the institution.

Clinical development is traditionally conducted in three sequential phases, which may overlap:

- In Phase I, product candidates are typically introduced into healthy human subjects or into selected patient populations (*i.e.*, patients with a serious disease or condition under study, under physician supervision) to test for adverse reactions, dosage tolerance, absorption and distribution, metabolism, excretion and clinical pharmacology.
- Phase II involves studies in a limited population of patients with the disease or condition under study to (i) determine the efficacy of the product candidates for specific targeted indications and populations, (ii) determine optimal dosage and dosage tolerance and (iii) identify possible and common adverse effects and safety risks. (Phase II may be divided into Phase IIa and Phase IIb studies to address these issues.) When a dose is chosen and a candidate product is found to have preliminary evidence of effectiveness, and to have an acceptable safety profile in Phase II evaluations, Phase III trials begin.
- Phase III trials are undertaken to develop additional safety and effectiveness information from an expanded patient population, generally at multiple study sites. This information obtained is used to develop a better understanding of the risks and benefits of the product candidate, and to determine appropriate labeling for use.

Based on clinical trial progress and results, the FDA may request changes or may require discontinuance of the trials at any time if significant safety issues arise.

Submission to the FDA of Marketing Authorization Applications and FDA Review. The results of the preclinical studies and clinical studies are submitted to the FDA as part of marketing approval authorization applications such as New Drug Applications (NDAs) or Biologics License Applications (BLAs). The FDA will evaluate such applications for the demonstration of safety and effectiveness. A BLA is required for biological products subject to licensure under the Public Health Service Act and must show that the product is safe, pure and potent. In addition to preclinical and clinical data, the BLA must contain other elements such as manufacturing materials, stability data, samples and labeling. FDA approval of a BLA is required prior to commercial sale or shipment of a biologic. A BLA may only be approved once the FDA examines the product and inspects the manufacturing establishment to assure conformity to the BLA and all applicable regulations and standards for biologics.

The time for approval may vary widely depending on the specific product candidate and disease to be treated, and a number of factors, including the risk/benefit profile identified in clinical trials, the availability of alternative treatments, and the severity of the disease. Additional animal studies or clinical trials may be requested during the FDA review period, which might add substantially to the review time.

The FDA's marketing approval for a product is limited to the treatment of a specific disease or condition in specified populations in certain clinical circumstances, as described on the approved labeling. The approved use is known as the "indication." After the FDA approves a product for the initial indication, further clinical trials may be required to gain approval for the use of the product for additional indications. The FDA may also require post-marketing testing (Phase IV studies) and surveillance to monitor for adverse effects, which could involve significant expense. The FDA may also elect to grant only conditional approval.

Ongoing Compliance Requirements

Even after product approval, there are a number of ongoing FDA regulatory requirements, including:

- Registration and listing;
- Regulatory submissions relating to changes in an NDA or BLA (such as the manufacturing process or labeling) and annual reports;
- Adverse event reporting;
- Compliance with advertising and promotion restrictions that relate to drugs and biologics; and
- Compliance with GMP and biological product standards (subject to FDA inspection of facilities to determine compliance).

Other Regulations

In addition to safety regulations enforced by the FDA, we are also subject to regulations under the Occupational Safety and Health Act, the Environmental Protection Act, the Toxic Substances Control Act and other present and potential future foreign, federal, state and local regulations. For instance, product manufacturing establishments located in certain states also may be subject to separate regulatory and licensing requirements.

Outside the U.S., we will be subject to regulations that govern the import of drug products from the U.S. or other manufacturing sites and foreign regulatory requirements governing human clinical trials and marketing approval for products. The requirements governing the conduct of clinical trials, product licensing, pricing and reimbursements vary widely from country to country.

Research and Development

Research and development expenses for the year ended December 31, 2010 were approximately \$2.6 million, mainly reflecting the costs of key laboratory experiments and manufacturing process enhancements in preparation for the next clinical trial for Tovaxin. Research and development expenses for the year ended December 31, 2009 were approximately \$2.1 million, mainly reflecting the costs of the open label extension of the TERMS Phase IIb clinical trials for Tovaxin, clinical data analysis and future clinical trial planning.

Organizational History

We are a development-stage company and have a limited operating history. Our predecessor company for financial reporting purposes was formed on January 22, 2003 to acquire rights to an adult stem cell technology. In November 2004, we acquired Opexa Pharmaceuticals, Inc. and its MS treatment technology. In 2009, Novartis Pharmaceuticals acquired our stem cell technology. Currently, we remain focused on developing our T-cell technology for MS. To date, we have not generated any commercial revenues from operations. As we continue to execute our business plan, we expect our development and operating expenses to increase.

Employees

As of February 28, 2011, we had 11 full-time employees. We believe that our relations with our employees are good. None of our employees is represented by a union or covered by a collective bargaining agreement.

Available Information

We are subject to the information and reporting requirements of the Securities Exchange Act of 1934, or the Exchange Act, under which we file periodic reports, proxy and information statements and other information with the United States Securities and Exchange Commission, or SEC. Copies of the reports, proxy statements and other information may be examined without charge at the Public Reference Room of the SEC, 100 F Street, N.E., Room 1580, Washington, D.C. 20549, or on the Internet at <http://www.sec.gov>. Copies of all or a portion of such materials can be obtained from the Public Reference Room of the SEC upon payment of prescribed fees. Please call the SEC at 1-800-SEC-0330 for further information about the Public Reference Room.

Financial and other information about Opexa is available on our website (www.opexatherapeutics.com). Information on our website is not incorporated by reference into this report. We make available on our website, free of charge, copies of our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after filing such material electronically or otherwise furnishing it to the SEC. Copies are available in print to any Opexa stockholder upon request in writing to Attention: Investor Relations, Opexa Therapeutics, Inc., 2635 Technology Forest Blvd., The Woodlands, TX 77381.

Item 1A. Risk Factors.

Investing in our common stock and warrants involves a high degree of risk. You should consider the following risk factors, as well as other information contained or incorporated by reference in this report, before deciding to invest in our common stock or warrants. The following factors affect our business and the industry in which we operate. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known or which we currently consider immaterial may also have an adverse effect on our business. If any of the matters discussed in the following risk factors were to occur, our business, financial condition, results of operations, cash flows, or prospects could be materially adversely affected, the market price of our common stock could decline and you could lose all or part of your investment in our securities.

Risks Related to Our Business

Our business is at an early stage of development. We are largely dependent on the success of our lead product candidate, Tovaxin, and we cannot be certain that Tovaxin will receive regulatory approval or be successfully commercialized.

Our business is at an early stage of development. We do not have any product candidates in late-stage clinical trials nor do we have any products on the market. We have only one product candidate, Tovaxin, which has progressed to the stage of being studied in human clinical trials in the United States. We are still in the very early stages of identifying and conducting research on any other potential products. Tovaxin, and any other potential products, will require regulatory approval prior to marketing in the United States and other countries. Obtaining such approval requires significant research and development and preclinical and clinical testing. We may not be able to develop any products, to obtain regulatory approvals, to continue clinical development of Tovaxin, to enter clinical trials (or any development activities) for any other product candidates, or to commercialize any products. Tovaxin, and any other potential products, may prove to have undesirable and unintended side effects or other characteristics adversely affecting their safety, efficacy or cost-effectiveness that could prevent or limit their use. Any product using any of our technology may fail to provide the intended therapeutic benefits or to achieve therapeutic benefits equal to or better than the standard of treatment at the time of testing or production.

We have a history of operating losses and do not expect to be profitable in the near future.

We have not generated any profits since our entry into the biotechnology business and we have incurred significant operating losses. We expect to incur additional operating losses for the foreseeable future. We have not received, and we do not expect to receive for at least the next several years, any revenues from the commercialization of any potential products. We do not currently have any sources of revenues and may not have any in the foreseeable future.

We will be required to raise significant additional capital, or secure a development partner, in the near-term, and our ability to obtain funding is uncertain. If sufficient capital is not available, we may not be able to continue our operations as proposed (including any clinical trial for Tovaxin), which may require us to modify our business plan, curtail various aspects of our operations, cease operations or seek relief under applicable bankruptcy laws.

As of December 31, 2010, we had cash and cash equivalents of \$3,812,535. During January 2011, we sold an aggregate of 384,759 shares of our common stock for net proceeds of \$1,066,266 under an "at the market" continuous offering program pursuant to a prospectus supplement dated May 17, 2010. During February 2011, we raised net proceeds of approximately \$7,622,800 through a public offering of common stock and warrants pursuant to a prospectus supplement dated February 8, 2011. Our current burn rate, which is in the absence of any clinical trial as well as significant activities in preparation for such a trial, is approximately \$380,000 per month. While we believe we have sufficient liquidity to support our operations through 2011, we will need to raise additional capital in the future to fund our current business plan and support our operations.

In addition to general corporate purposes (including working capital and operational purposes), we currently intend to use the net proceeds from the February 2011 public offering to prepare for and proceed toward the initiation of a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, although the net proceeds from such offering together with our existing resources would not be adequate to permit us to proceed materially beyond the initiation of such a study (*i.e.*, the dosing of the first patient) or to complete such study or any significant portion of it. A pivotal Phase III clinical study in the United States of Tovaxin in RR-MS is expected to involve 240 patients and take approximately two and one-half years to complete. If we are able to commence such a study in the second half of 2011, the costs of such study as well as the ongoing expenses of our operations through the expected completion date of such study are estimated at approximately \$35 million. Unless we secure at least a substantial portion of the additional resources that will be necessary to complete the planned Phase III study and support our operations during the pendency of such study, or we are reasonably confident that such resources will be secured, we would likely not proceed with the initiation of such study.

Given our need for substantial amounts of capital, in addition to the proceeds from the February 2011 public offering, to undertake a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, we intend to continue to explore potential opportunities and alternatives to obtain the significant additional resources that will be necessary to complete the planned Phase III study and to support the operations of the Company during the pendency of such study. In addition to one or more additional financings, these opportunities and alternatives may include a partnering arrangement with a large biotech or pharmaceutical company. There can be no assurance that any such financings or partnering arrangement can be consummated on acceptable terms, if at all.

Assuming we are able to achieve financing which is sufficient to support the planned Phase III study in the United States and to support our operations during the pendency of such study, we are also preparing for a second pivotal Phase III clinical study in Europe. Any such second study would also depend upon the availability of sufficient resources.

As we have no sources of debt or equity capital committed for funding, we must rely upon best efforts third-party debt or equity funding and we can provide no assurance that we will be successful in any funding effort. The timing and degree of any future capital requirements will depend on many factors, including:

- our ability to establish, enforce and maintain strategic arrangements for research, development, clinical testing, manufacturing and marketing;
- the accuracy of the assumptions underlying our estimates for capital needs in 2011 and beyond as well as for any clinical study of Tovaxin;
- scientific progress in our research and development programs;
- the magnitude and scope of our research and development programs;
- our progress with preclinical development and clinical trials;
- the time and costs involved in obtaining regulatory approvals;
- the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing patent claims; and
- the number and type of product candidates that we pursue.

If we raise additional funds through any collaboration, partnering or licensing arrangements with third parties, we may need to relinquish some rights to our product candidate Tovaxin, including commercialization rights, which may harm our ability to generate revenues and achieve or sustain profitability.

If we raise additional funds by issuing equity securities, stockholders may experience substantial dilution. Debt financing, if available, may involve restrictive covenants that may impede our ability to operate our business. Any debt financing or additional equity that we raise may contain terms that are not favorable to us or our stockholders. There is no assurance that our capital raising efforts will be able to attract the capital needed to execute on our business plan and sustain our operations.

If we are unable to obtain additional funding or secure a development partner, we may not be able to undertake, or complete the planned pivotal Phase III clinical study in the United States of Tovaxin in RR-MS or otherwise continue our operations as proposed, which may require us to modify our business plan or curtail various aspects of our operations. If these measures are not sufficient to maintain an adequate level of capital, it may be necessary to cease operations or seek relief under applicable bankruptcy laws. In such event, our stockholders may lose a portion or even all of their investment.

We will depend on strategic collaborations with third parties to develop and commercialize product candidates, such as Tovaxin, and we may not have control over a number of key elements relating to the development and commercialization of any such product candidate.

A key aspect of our strategy, including with respect to Tovaxin, is to seek collaboration with a partner, such as a large pharmaceutical organization, that is willing to further develop and commercialize a selected product candidate. To date, we have not entered into any such collaborative arrangement with respect to Tovaxin. However, we will need to raise significant additional capital in order to undertake the planned pivotal Phase III clinical study in the United States of Tovaxin in RR-MS as the total costs of conducting this study, if commenced in the near-term, as well as the ongoing expenses of our operations through the expected completion date of such study are estimated at approximately \$35 million.

By entering into such as strategic collaboration, we may rely on our partner for financial resources and for development, regulatory and commercialization expertise. Our partner may fail to develop or effectively commercialize our product candidate because they:

- do not have sufficient resources or decide not to devote the necessary resources due to internal constraints such as limited cash or human resources;
- decide to pursue a competitive potential product developed outside of the collaboration;
- cannot obtain the necessary regulatory approvals;
- determine that the market opportunity is not attractive; or
- cannot manufacture or obtain the necessary materials in sufficient quantities from multiple sources or at a reasonable cost.

We may not be able to enter into a collaboration, including with respect to Tovaxin, on acceptable terms, if at all. We face competition in our search for partners from other organizations worldwide, many of whom are larger and are able to offer more attractive deals in terms of financial commitments, contribution of human resources, or development, manufacturing, regulatory or commercial expertise and support.

If we are not successful in attracting a partner and entering into a collaboration on acceptable terms, we may not be able to complete development of, or commercialize any product candidate, including Tovaxin. In particular, we may be unable to undertake, or complete, the planned pivotal Phase III clinical study in the United States of Tovaxin in RR-MS. In such event, our ability to generate revenues and achieve or sustain profitability would be significantly hindered and we may not be able to continue operations as proposed, requiring us to modify our business plan, curtail various aspects of our operations or cease operations.

Third parties, including Novartis, to whom we have transferred development and commercialization rights for products covered by intellectual property rights, may not be successful in their efforts, and as a result, we may not receive future royalty or other milestone payments relating to those products or rights.

We will need regulatory approvals for any product candidate, including Tovaxin, prior to introduction to the market, which will require successful testing in clinical trials. Clinical trials are subject to extensive regulatory requirements, and are very expensive, time-consuming and difficult to design and implement. Any product candidate, such as Tovaxin, may fail to achieve necessary safety and efficacy endpoints during clinical trials in which case we will be unable to generate revenue from the commercialization and sale of our products.

Human clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous FDA requirements, and must otherwise comply with federal, state and local requirements and policies of the medical institutions where they are conducted. The clinical trial process is also time-consuming. We estimate that a pivotal Phase III clinical trial in the United States of our lead product candidate, Tovaxin, in RR-MS will take approximately two and one-half years to complete. In addition, we anticipate that a second Phase III clinical trial, which we are currently planning to conduct in Europe, would be necessary before we could submit an application for approval of Tovaxin for RR-MS. Failure can occur at any stage of the trials, and we could encounter problems that cause us to be unable to initiate a trial, or to abandon or repeat a clinical trial.

The commencement and completion of clinical trials, including the commencement of the planned pivotal Phase III clinical trial in the United States of Tovaxin in RR-MS, may be delayed or prevented by several factors, including:

- FDA or IRB objection to proposed protocols;
- discussions or disagreement with the FDA over the adequacy of trial design to potentially demonstrate effectiveness, and subsequent design modifications;
- unforeseen safety issues;
- determination of dosing issues and related adjustments;
- lack of effectiveness during clinical trials;
- slower than expected rates of patient recruitment;
- product quality problems (e.g., sterility or purity);
- challenges to patient monitoring and data collection during or after treatment (for example, patients' failure to return for follow-up visits); and
- failure of medical investigators to follow our clinical protocols.

In addition, we or the FDA (based on its authority over clinical studies) may delay a proposed investigation or suspend clinical trials in progress at any time if it appears that the study may pose significant risks to the study participants or other serious deficiencies are identified. Prior to approval of our product the FDA must determine that the data demonstrate safety and effectiveness. The large majority of drug candidates that begin human clinical trials fail to demonstrate the desired safety and efficacy characteristics.

Furthermore, changes in regulatory requirements and guidance may occur and we may need to amend clinical trial protocols, or otherwise modify our intended course of clinical development, to reflect these changes. This, too, may impact the costs, timing or successful completion of a clinical trial. In light of widely publicized events concerning the safety risk of certain drug products, regulatory authorities, members of Congress, the U.S. Government Accountability Office, medical professionals and the general public have raised concerns about potential drug safety issues. These events have resulted in the withdrawal of drug products, revisions to drug labeling that further limit use of the drug products, and establishment of risk management programs that may, for instance, restrict distribution of drug products. The increased attention to drug safety issues may result in a more cautious approach by the FDA to clinical trials. Data from clinical trials may receive greater scrutiny with respect to safety, which may make the FDA or other regulatory authorities more likely to terminate clinical trials before completion or require longer or additional clinical trials that may result in substantial additional expense and a delay or failure in obtaining approval or approval for a more limited indication than originally sought.

Even if we obtain regulatory approvals for any product candidate, such as Tovaxin, that approval may be subject to limitations on the indicated uses for which it may be marketed. Our ability to generate revenues from the commercialization and sale of any potential products will be limited by any failure to obtain or limitation on necessary regulatory approvals.

We will rely on third parties to conduct our clinical trials and perform data collection and analysis, which may result in costs and delays that may hamper our ability to successfully develop and commercialize any product candidate, including Tovaxin.

Although we have participated in the design and management of our past clinical trials, we do not have the ability to conduct clinical trials directly for any product candidate, including Tovaxin. We will need to rely on contract research organizations, medical institutions, clinical investigators and contract laboratories to conduct our clinical trials and to perform data collection and analysis.

Our clinical trials may be delayed, suspended or terminated if:

- any third party upon whom we rely does not successfully carry out its contractual duties or regulatory obligations or meet expected deadlines;
- any such third party needs to be replaced; or
- the quality or accuracy of the data obtained by the third party is compromised due to its failure to adhere to clinical protocols or regulatory requirements or for other reasons.

Failure to perform by any third party upon whom we rely may increase our development costs, delay our ability to obtain regulatory approval and prevent the commercialization of any product candidate, including Tovaxin. While we believe that there are numerous alternative sources to provide these services, we might not be able to enter into replacement arrangements without delays or additional expenditures if we were to seek such alternative sources.

If we fail to identify and license or acquire other product candidates, we will not be able to expand our business over the long term.

Given that we have limited internal discovery capabilities, our business over the long term is substantially dependent on our ability to license or acquire product candidates and further develop them for commercialization. The success of this strategy depends upon our ability to identify, select and acquire the right product candidates. We have limited experience identifying, negotiating and implementing economically viable product candidate acquisitions or licenses, which is a lengthy and complex process. Also, the market for licensing and acquiring product candidates is intensely competitive, and many of our competitors have greater resources than we do. We may not have the requisite capital resources to consummate product candidate acquisitions or licenses that we identify to fulfill our strategy.

Moreover, any product candidate acquisition that we do complete will involve numerous risks, including:

- difficulties in integrating the development program for the acquired product candidate into our existing operations;
- diversion of financial and management resources from existing operations;
- risks of entering new potential markets or technologies;
- inability to generate sufficient funding to offset acquisition costs; and
- delays that may result from our having to perform unanticipated preclinical trials or other tests on the product candidate.

We are dependent upon our management team and a small number of employees.

Our business strategy is dependent upon the skills and knowledge of our management team. If any critical employee leaves, we may be unable on a timely basis to hire suitable replacements to operate our business effectively. We also operate with a very small number of employees and thus have little or no backup capability for their activities. The loss of the services of any member of our management team or the loss of just a few other employees could have a material adverse effect on our business and results of operations.

If we fail to meet our obligations under our license agreements, we may lose our rights to key technologies on which our business depends.

Our business depends on licenses from third parties. These third party license agreements impose obligations on us, such as payment obligations and obligations diligently to pursue development of commercial products under the licensed patents. If a licensor believes that we have failed to meet our obligations under a license agreement, the licensor could seek to limit or terminate our license rights, which could lead to costly and time-consuming litigation and, potentially, a loss of the licensed rights. During the period of any such litigation, our ability to carry out the development and commercialization of potential products could be significantly and negatively affected. If our license rights were restricted or ultimately lost, our ability to continue our business based on the affected technology platform could be adversely affected.

Our current research and manufacturing facility is not large enough to manufacture product candidates, such as Tovaxin, for clinical trials or, if such clinical trials are successful, commercial applications.

We conduct our research and development in a 10,200 square foot facility in The Woodlands, Texas, which includes an approximately 800 square foot suite of three rooms for the manufacture of T-cell therapies. We believe our current facility should have the capacity to support a U.S. pivotal Phase III trial for the development of Tovaxin for RR-MS. It is not sufficient, however, to support potential European clinical studies, if required, or the commercial launch of Tovaxin. In this case, we would need to expand our manufacturing staff and facility, obtain a new facility or contract with corporate collaborators or other third parties to assist with future drug production and commercialization.

In the event that we decide to establish a commercial-scale manufacturing facility, we will require substantial additional funds and will be required to hire and train significant numbers of employees and comply with applicable regulations, which are extensive. We do not have funds available for building a manufacturing facility, and we may not be able to build a manufacturing facility that both meets regulatory requirements and is sufficient for our commercial-scale manufacturing.

We may arrange with third parties for the manufacture of our future products, if any. However, our third-party sourcing strategy may not result in a cost-effective means for manufacturing our future products. If we employ third-party manufacturers, we will not control many aspects of the manufacturing process, including compliance by these third parties with cGMP and other regulatory requirements. We further may not be able to obtain adequate supplies from third-party manufacturers in a timely fashion for development or commercialization purposes, and commercial quantities of products may not be available from contract manufacturers at acceptable costs.

If any product we may eventually have is not accepted by the market or if users of any such product are unable to obtain adequate coverage of and reimbursement for such product from government and other third-party payors, our revenues and profitability will suffer.

Our ability to successfully commercialize any product we may eventually have will depend in significant part on the extent to which appropriate coverage of and reimbursement for such product and any related treatments are obtained from governmental authorities, private health insurers and other organizations, such as health maintenance organizations, or HMOs. Third-party payors are increasingly challenging the prices charged for medical products and services. We cannot provide any assurances that third-party payors will consider any product we may eventually have cost-effective or provide coverage of and reimbursement for such product, in whole or in part.

Uncertainty exists as to the coverage and reimbursement status of newly approved medical products and services and newly approved indications for existing products. Third-party payors may conclude that any product we may eventually have is less safe, less clinically effective, or less cost-effective than existing products, and third-party payors may not approve such product for coverage and reimbursement. If we are unable to obtain adequate coverage of and reimbursement for any product we may eventually have from third-party payors, physicians may limit how much or under what circumstances they will prescribe or administer them. Such reduction or limitation in the use of any such product would cause sales to suffer. Even if third-party payors make reimbursement available, payment levels may not be sufficient to make the sale of any such product profitable.

In addition, the trend towards managed health care in the United States and the concurrent growth of organizations such as HMOs, which could control or significantly influence the purchase of medical services and products, may result in inadequate coverage of and reimbursement for any product we may eventually have. Many third-party payors, including in particular HMOs, are pursuing various ways to reduce pharmaceutical costs, including, for instance, the use of formularies. The market for any product we may eventually have depends on access to such formularies, which are lists of medications for which third-party payors provide reimbursement. These formularies are increasingly restricted, and pharmaceutical companies face significant competition in their efforts to place their products on formularies of HMOs and other third-party payors. This increased competition has led to a downward pricing pressure in the industry. The cost containment measures that third-party payors are instituting could have a material adverse effect on our ability to operate profitably.

Any product candidate that we develop, such as Tovaxin, if approved for sale, may not gain acceptance among physicians, patients and the medical community, thereby limiting our potential to generate revenues.

Even if a product candidate, such as Tovaxin, is approved for commercial sale by the FDA or other regulatory authorities, the degree of market acceptance of any approved product candidate by physicians, healthcare professionals and third-party payors, and our profitability and growth, will depend on a number of factors, including:

- demonstration of efficacy;
- relative convenience and ease of administration;
- the prevalence and severity of any adverse side effects;
- availability and cost of alternative treatments, including cheaper generic drugs;
- pricing and cost effectiveness, which may be subject to regulatory control;
- effectiveness of our or any of our partners' sales and marketing strategies;
- the product labeling or product insert required by the FDA or regulatory authority in other countries; and
- the availability of adequate third-party insurance coverage or reimbursement.

If any product candidate that we develop does not provide a treatment regimen that is as beneficial as the current standard of care or otherwise does not provide patient benefit, that product candidate, if approved for commercial sale by the FDA or other regulatory authorities, likely will not achieve market acceptance and our ability to generate revenues from that product candidate would be substantially reduced.

We have incurred, and expect to continue to incur, increased costs and risks as a result of being a public company.

As a public company, we are required to comply with the Sarbanes-Oxley Act of 2002, or SOX, as well as rules and regulations implemented by the SEC and The Nasdaq Stock Market (NASDAQ). Changes in the laws and regulations affecting public companies, including the provisions of SOX and rules adopted by the SEC and by NASDAQ, have resulted in, and will continue to result in, increased costs to us as we respond to their requirements. Given the risks inherent in the design and operation of internal controls over financial reporting, the effectiveness of our internal controls over financial reporting is uncertain. If our internal controls

are not designed or operating effectively, we may not be able to conclude an evaluation of our internal control over financial reporting as required or we or our independent registered public accounting firm may determine that our internal control over financial reporting was not effective. In addition, our registered public accounting firm may either disclaim an opinion as it relates to management's assessment of the effectiveness of our internal controls or may issue an adverse opinion on the effectiveness of our internal controls over financial reporting. Investors may lose confidence in the reliability of our financial statements, which could cause the market price of our common stock to decline and which could affect our ability to run our business as we otherwise would like to. New rules could also make it more difficult or more costly for us to obtain certain types of insurance, including directors' and officers' liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the coverage that is the same or similar to our current coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our Board of Directors, our Board committees, and as executive officers. We cannot predict or estimate the total amount of the costs we may incur or the timing of such costs to comply with these rules and regulations.

Under the corporate governance standards of NASDAQ, a majority of our Board of Directors and each member of our Audit Committee must be an independent director. If any vacancies on our Board or our Audit Committee occur that need to be filled by independent directors, we may encounter difficulty in attracting qualified persons to serve on our Board and, in particular, our Audit Committee. If we fail to attract and retain the required number of independent directors, we may be subject to SEC enforcement proceedings and delisting of our common stock from the NASDAQ Capital Market.

Risks Related to Our Intellectual Property

Patents obtained by other persons may result in infringement claims against us that are costly to defend and which may limit our ability to use the disputed technologies and prevent us from pursuing research and development or commercialization of potential products, such as Tovaxin.

If third party patents or patent applications contain claims infringed by either our licensed technology or other technology required to make or use our potential products, such as Tovaxin, and such claims are ultimately determined to be valid, there can be no assurance that we would be able to obtain licenses to these patents at a reasonable cost, if at all, or be able to develop or obtain alternative technology. If we are unable to obtain such licenses at a reasonable cost, we may not be able to develop any affected product candidate, such as Tovaxin, commercially. There can be no assurance that we will not be obliged to defend ourselves in court against allegations of infringement of third party patents. Patent litigation is very expensive and could consume substantial resources and create significant uncertainties. An adverse outcome in such a suit could subject us to significant liabilities to third parties, require disputed rights to be licensed from third parties, or require us to cease using such technology.

If we are unable to obtain patent protection and other proprietary rights, our operations will be significantly harmed.

Our ability to compete effectively is dependent upon obtaining patent protection relating to our technologies. The patent positions of pharmaceutical and biotechnology companies, including ours, are uncertain and involve complex and evolving legal and factual questions. The coverage sought in a patent application can be denied or significantly reduced before or after the patent is issued. Consequently, we do not know whether pending patent applications for our technology will result in the issuance of patents, or if any issued patents will provide significant protection or commercial advantage or will be circumvented by others. Since patent applications are secret until the applications are published (usually 18 months after the earliest effective filing date), and since publication of discoveries in the scientific or patent literature often lags behind actual discoveries, we cannot be certain that the inventors of our owned or licensed intellectual property rights were the first to make the inventions at issue or that any patent applications at issue were the first to be filed for such inventions. There can be no assurance that patents will issue from pending patent applications or, if issued, that such patents will be of commercial benefit to us, afford us adequate protection from competing products, or not be challenged or declared invalid.

For our licensed intellectual property, we have limited control over the amount or timing of resources that are devoted to the prosecution of such intellectual property. Due to this lack of control and general uncertainties in the patent prosecution process, we cannot be sure that any licensed patents will result from licensed applications or, if they do, that they will be maintained. Issued U.S. patents require the payment of maintenance fees to continue to be in force. We rely on licensors to do this and their failure to do so could result in the forfeiture of patents not timely maintained. Many foreign patent offices also require the payment of periodic annuities to keep patents and patent applications in good standing. As we do not maintain control over the payment of annuities, we cannot assure you that our licensors will timely pay such annuities and that the granted patents and pending patent applications will not become abandoned. In addition, our licensors may have selected a limited amount of foreign patent protection, and therefore applications have not been filed in, and foreign patents may not have been perfected in, all commercially significant countries.

The patent protection of product candidates, such as Tovaxin, involves complex legal and factual questions. To the extent that it would be necessary or advantageous for any of our licensors to cooperate or lead in the enforcement of our licensed intellectual property rights, we cannot control the amount or timing of resources such licensors devote on our behalf or the priority they place on enforcing such rights. We may not be able to protect our intellectual property rights against third party infringement, which may be difficult to detect. Additionally, challenges may be made to the ownership of our intellectual property rights, our ability to enforce them, or our underlying licenses.

We cannot be certain that any of the patents issued to us or to our licensors will provide adequate protection from competing products. Our success will depend, in part, on whether we or our licensors can:

- obtain and maintain patents to protect our product candidates such as Tovaxin;
- obtain and maintain any required or desirable licenses to use certain technologies of third parties, which may be protected by patents;
- protect our trade secrets and know-how;
- operate without infringing the intellectual property and proprietary rights of others;
- enforce the issued patents under which we hold rights; and
- develop additional proprietary technologies that are patentable.

The degree of future protection for our proprietary rights (owned or licensed) is uncertain. For example:

- we or our licensor might not have been the first to make the inventions covered by pending patent applications or issued patents owned by, or licensed to, us;
- we or our licensor 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 the technologies owned by, or licensed to, us;
- it is possible that none of the pending patent applications owned by, or licensed to, us will result in issued patents;
- any patents under which we hold rights may not provide us with a basis for commercially viable products, may not provide us with any competitive advantages or may be challenged by third parties as invalid, or unenforceable under U.S. or foreign laws; or
- any of the issued patents under which we hold rights may not be valid or enforceable or may be circumvented successfully in light of the continuing evolution of domestic and foreign patent laws.

Confidentiality agreements with employees and others may not adequately prevent disclosure of our trade secrets and other proprietary information and may not adequately protect our intellectual property, which could limit our ability to compete.

We rely in part on trade secret protection in order to protect our proprietary trade secrets and unpatented know-how. However, trade secrets are difficult to protect, and we cannot be certain that others will not develop the same or similar technologies on their own. We have taken steps, including entering into confidentiality agreements with our employees, consultants, outside scientific collaborators and other advisors, to protect our trade secrets and unpatented know-how. These agreements generally require that the other party keep confidential and not disclose to third parties all confidential information developed by the party or made known to the party by us during the course of the party's relationship with us. We also typically obtain agreements from these parties which provide that inventions conceived by the party in the course of rendering services to us will be our exclusive property. However, these agreements may not be honored and may not effectively assign intellectual property rights to us. Further, we have limited control, if any, over the protection of trade secrets developed by our licensors. Enforcing a claim that a party illegally obtained and is using our trade secrets or know-how is difficult, expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the United States may be less willing to protect trade secrets or know-how. The failure to obtain or maintain trade secret protection could adversely affect our competitive position.

A dispute concerning the infringement or misappropriation of our proprietary rights or the proprietary rights of others could be time consuming and costly, and an unfavorable outcome could harm our business.

A number of pharmaceutical, biotechnology and other companies, universities and research institutions have filed patent applications or have been issued patents relating to cell therapy, T-cells, and other technologies potentially relevant to or required by our product candidate Tovaxin. We cannot predict which, if any, of such applications will issue as patents or the claims that might be allowed. We are aware of a number of patent applications and patents claiming use of modified cells to treat disease, disorder or injury.

There is significant litigation in our industry regarding patent and other intellectual property rights. While we are not currently subject to any pending intellectual property litigation, and are not aware of any such threatened litigation, we may be exposed to future litigation by third parties based on claims that our product candidates, such as Tovaxin, or their methods of use, manufacturing or other technologies or activities infringe the intellectual property rights of such third parties. If our product candidates, such as Tovaxin, or their methods of manufacture are found to infringe any such patents, we may have to pay significant damages or seek licenses under such patents. We have not conducted comprehensive searches of patents issued to third parties relating to Tovaxin. Consequently, no assurance can be given that third-party patents containing claims covering Tovaxin, its method of use or manufacture do not exist or have not been filed and will not be issued in the future. Because some patent applications in the United States may be maintained in secrecy until the patents are issued, and because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing, we cannot be certain that others have not filed patent applications that will mature into issued patents that relate to our current or future product candidates that could have a material effect in developing and commercializing one or more of our product candidates. A patent holder could prevent us from importing, making, using or selling the patented compounds. We may need to resort to litigation to enforce our intellectual property rights or to determine the scope and validity of third-party proprietary rights. Similarly, we may be subject to claims that we have inappropriately used or disclosed trade secrets or other proprietary information of third parties. If we become involved in litigation, it could consume a substantial portion of our managerial and financial resources, regardless of whether we win or lose. Some of our competitors may be able to sustain the costs of complex intellectual property litigation more effectively than we can because they have substantially greater resources. We may not be able to afford the costs of litigation. Any legal action against us or our collaborators could lead to:

- payment of actual damages, royalties, lost profits, potentially treble damages and attorneys' fees, if we are found to have willfully infringed a third party's patent rights;
- injunctive or other equitable relief that may effectively block our ability to further develop, commercialize and sell our products;
- we or our collaborators having to enter into license arrangements that may not be available on commercially acceptable terms if at all; or
- significant cost and expense, as well as distraction of our management from our business.

As a result, we could be prevented from commercializing current or future product candidates.

Risks Related to Our Industry

We are subject to stringent regulation of our product candidates, such as Tovaxin, which could delay development and commercialization.

We, our third-party contractors, suppliers and partners, and our product candidates, such as Tovaxin, are subject to stringent regulation by the FDA and other regulatory agencies in the United States and by comparable authorities in other countries. None of our product candidates can be marketed in the United States until it has been approved by the FDA. No product candidate of ours has been approved, and we may never receive FDA approval for any product candidate. Obtaining FDA approval typically takes many years and requires substantial resources. Even if regulatory approval is obtained, the FDA may impose significant restrictions on the indicated uses, conditions for use and labeling of such products. Additionally, the FDA may require post-approval studies, including additional research and development and clinical trials. These regulatory requirements may limit the size of the market for the product or result in the incurrence of additional costs. Any delay or failure in obtaining required approvals could substantially reduce our ability to generate revenues.

In addition, both before and after regulatory approval, we, our partners and our product candidates, such as Tovaxin, are subject to numerous FDA requirements covering, among other things, testing, manufacturing, quality control, labeling, advertising, promotion, distribution and export. The FDA's requirements may change and additional government regulations may be promulgated that could affect us, our partners and our product candidates, such as Tovaxin. Given the number of recent high profile adverse safety events with certain drug products, the FDA may require, as a condition of approval, costly risk management programs, which may include safety surveillance, restricted distribution and use, patient education, enhanced labeling, special packaging or labeling, expedited reporting of certain adverse events, preapproval of promotional materials and restrictions on direct-to-consumer advertising. Furthermore, heightened Congressional scrutiny on the adequacy of the FDA's drug approval process and the agency's efforts to assure the safety of marketed drugs resulted in the enactment of legislation addressing drug safety issues, the FDA Amendments Act of 2007. This legislation provides the FDA with expanded authority over drug products after approval and the FDA's exercise of this authority could result in delays or increased costs during the period of product development, clinical trials and regulatory review and approval, and increased costs to assure compliance with new post-approval regulatory requirements. We cannot predict the likelihood, nature or extent of government regulation that may arise from this or future legislation or administrative action, either in the United States or abroad.

In order to market any of our products outside of the United States, we and our strategic partners and licensees must establish and comply with numerous and varying regulatory requirements of other countries regarding safety and efficacy. Approval procedures vary among countries and can involve additional product testing and additional administrative review periods and the time required to obtain approval in other countries might differ from that required to obtain FDA approval. The regulatory approval process in other countries may include all of the risks detailed above regarding FDA approval in the United States. Approval by the FDA does not automatically lead to the approval of authorities outside of the United States and, similarly, approval by other regulatory authorities outside the United States will not automatically lead to FDA approval. In addition, regulatory approval in one country does not ensure regulatory approval in another, but a failure or delay in obtaining regulatory approval in one country may negatively impact the regulatory process in others. Our product candidates, such as Tovaxin, may not be approved for all indications that we request, which would limit uses and adversely impact our potential royalties and product sales. Such approval may be subject to limitations on the indicated uses for which any potential product may be marketed or require costly, post-marketing follow-up studies.

If we fail to comply with applicable regulatory requirements in the United States and other countries, among other things, we may be subject to fines and other civil penalties, delays in approving or failure to approve a product, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions, interruption of manufacturing or clinical trials, injunctions and criminal prosecution, any of which would harm our business.

We may need to change our business practices to comply with health care fraud and abuse regulations, and our failure to comply with such laws could adversely affect our business, financial condition and results of operations.

If we are successful in achieving approval to market one or more of our product candidates, our operations will be directly, or indirectly through our customers, subject to various state and federal fraud and abuse laws, including, without limitation, the federal Anti-Kickback Statute and False Claims Act. These laws may impact, among other things, our proposed sales, marketing and education programs.

The federal Anti-Kickback Statute prohibits persons from knowingly and willfully soliciting, offering, receiving or providing remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual, or the furnishing or arranging for a good or service, for which payment may be made under a federal healthcare program such as the Medicare and Medicaid programs. Several courts have interpreted the statute's intent requirement to mean that if any one purpose of an arrangement involving remuneration is to induce referrals of federal healthcare covered business, the statute has been violated. The Anti-Kickback Statute is broad and prohibits many arrangements and practices that are lawful in businesses outside of the healthcare industry. Recognizing that the Anti-Kickback Statute is broad and may technically prohibit many innocuous or beneficial arrangements, Congress authorized the Department of Health and Human Services, Office of Inspector General, or OIG, to issue a series of regulations, known as the "safe harbors." These safe harbors set forth provisions that, if all their applicable requirements are met, will assure healthcare providers and other parties that they will not be prosecuted under the Anti-Kickback Statute. The failure of a transaction or arrangement to fit precisely within one or more safe harbors does not necessarily mean that it is illegal or that prosecution will be pursued. However, conduct and business arrangements that do not fully satisfy each applicable safe harbor may result in increased scrutiny by government enforcement authorities such as the OIG. Penalties for violations of the federal Anti-Kickback Statute include criminal penalties and civil sanctions such as fines, imprisonment and possible exclusion from Medicare, Medicaid and other federal healthcare programs. Many states have also adopted laws similar to the federal Anti-Kickback Statute, some of which apply to the referral of patients for healthcare items or services reimbursed by any source, not only the Medicare and Medicaid programs.

The federal False Claims Act prohibits persons from knowingly filing or causing to be filed a false claim to, or the knowing use of false statements to obtain payment from, the federal government. Suits filed under the False Claims Act, known as "qui tam" actions, can be brought by any individual on behalf of the government and such individuals, sometimes known as "relators" or, more commonly, as "whistleblowers," may share in any amounts paid by the entity to the government in fines or settlement. The frequency of filing of qui tam actions has increased significantly in recent years, causing greater numbers of healthcare companies to have to defend a False Claims Act action. When an entity is determined to have violated the federal False Claims Act, it may be required to pay up to three times the actual damages sustained by the government, plus civil penalties. Various states have also enacted laws modeled after the federal False Claims Act.

In addition to the laws described above, the Health Insurance Portability and Accountability Act of 1996 created two new federal crimes: healthcare fraud and false statements relating to healthcare matters. The healthcare fraud statute prohibits knowingly and willfully executing a scheme to defraud any healthcare benefit program, including private payors. A violation of this statute is a felony and may result in fines, imprisonment or exclusion from government sponsored programs. The false statements statute prohibits knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false, fictitious or fraudulent statement in connection with the delivery of or payment for healthcare benefits, items or services. A violation of this statute is a felony and may result in fines or imprisonment.

If our operations are found to be in violation of any of the laws described above and other applicable state and federal fraud and abuse laws, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from government healthcare programs, and the curtailment or restructuring of our operations.

If our competitors develop and market products that are more effective than our product candidates, they may reduce or eliminate our commercial opportunities.

Competition in the pharmaceutical industry, particularly the market for MS products, is intense, and we expect such competition to continue to increase. We face competition from pharmaceutical and biotechnology companies, as well as numerous academic and research institutions and governmental agencies, in the United States and abroad. Our competitors have products that have been approved or are in advanced development and may succeed in developing drugs that are more effective, safer and more affordable or more easily administered than ours, or that achieve patent protection or commercialization sooner than our products. Our most significant competitors are fully integrated pharmaceutical companies and more established biotechnology companies. These companies have significantly greater capital resources and expertise in research and development, manufacturing, testing, obtaining regulatory approvals, and marketing than we currently do. However, smaller companies also may prove to be significant competitors, particularly through proprietary research discoveries and collaboration arrangements with large pharmaceutical and established biotechnology companies. In addition to the competitors with existing products that have been approved, many of our competitors are further along in the process of product development and also operate large, company-funded research and development programs. As a result, our competitors may develop more competitive or affordable products, or achieve earlier patent protection or further product commercialization than we are able to achieve. Competitive products may render any products or product candidates that we develop obsolete.

Our competitors may also develop alternative therapies that could further limit the market for any products that we may develop.

Rapid technological change could make our products obsolete.

Biopharmaceutical technologies have undergone rapid and significant change, and we expect that they will continue to do so. As a result, there is significant risk that our product candidates, such as Tovaxin, may be rendered obsolete or uneconomical by new discoveries before we recover any expenses incurred in connection with their development. If our product candidates, such as Tovaxin, are rendered obsolete by advancements in biopharmaceutical technologies, our future prospects will suffer.

Consumers may sue us for product liability, which could result in substantial liabilities that exceed our available resources and damage our reputation.

Developing and commercializing drug products entails significant product liability risks. Liability claims may arise from our and our collaborators' use of products in clinical trials and the commercial sale of those products.

In the event that any of our product candidates becomes an approved product and is commercialized, consumers may make product liability claims directly against us and/or our collaborators, and our collaborators or others selling these products may seek contribution from us if they incur any loss or expenses related to such claims. We have insurance that covers clinical trial activities. We believe our current insurance coverage is reasonably adequate at this time. However, we will need to increase and expand this coverage as we commence additional clinical trials, as well as larger scale trials, and if any product candidate is approved for commercial sale. This insurance may be prohibitively expensive or may not fully cover our potential liabilities. Our inability to obtain sufficient insurance coverage at an acceptable cost or otherwise to protect against potential product liability claims could prevent or inhibit the regulatory approval or commercialization of products that we or one of our collaborators develop. Product liability claims could have a material adverse effect on our business and results of operations. Liability from such claims could exceed our total assets if we do not prevail in any lawsuit brought by a third party alleging that an injury was caused by one or more of our products.

Health care reform measures could adversely affect our business.

The business and financial condition of pharmaceutical and biotechnology companies are affected by the efforts of governmental and third-party payors to contain or reduce the costs of health care. In the United States and in foreign jurisdictions, there have been, and we expect that there will continue to be, a number of legislative and regulatory proposals aimed at changing the health care system. For example, in some countries other than the United States, pricing of prescription drugs is subject to government control, and we expect proposals to implement similar controls in the United States to continue. Another example of reform that could affect our business is drug reimportation into the United States (*i.e.*, the reimportation of approved drugs originally manufactured in the United States back into the United States from other countries where the drugs were sold at lower prices). Initiatives in this regard could decrease the price we or any potential collaborators receive for our product candidates if they are ever approved for sale, adversely affecting our future revenue growth and potential profitability. Moreover, the pendency or approval of such proposals could result in a decrease in our stock price or adversely affect our ability to raise capital or to obtain strategic partnerships or licenses.

Risks Related to Our Securities

There is currently a limited market for our securities, and any trading market that exists in our securities may be highly illiquid and may not reflect the underlying value of our net assets or business prospects.

Although our common stock and Series E warrants are traded on the NASDAQ Capital Market, there is currently a limited market for our securities and there can be no assurance that an active market will ever develop. Investors are cautioned not to rely on the possibility that an active trading market may develop.

Our stock may be delisted from NASDAQ, which could affect its market price and liquidity.

We are required to meet certain qualitative and financial tests (including a minimum stockholders' equity requirement and bid price for our common stock of \$1.00 per share) to maintain the listing of our common stock on the NASDAQ Capital Market. During portions of 2008 and 2009, our stockholders' equity was below the continued listing standard requirement of \$2.5 million and the bid price for our common stock was below \$1.00 per share for periods of time, and our common stock was in jeopardy of being delisted. During 2010, the trading price of our common stock was minimally above \$1.00 per share for brief periods of time. It is also possible that we would otherwise fail to satisfy another NASDAQ requirement for continued listing of our common stock. We may receive additional future notices from NASDAQ that we have failed to meet these requirements. If we are unable to cure any such failures in a timely manner and our common stock is delisted, it could be more difficult to buy or sell our common stock and to obtain accurate quotations, and the price of our stock could suffer a material decline. Delisting may also impair our ability to raise capital.

As our share price is volatile, and you may not be able to resell our shares at a profit or at all.

The market prices for securities of biopharmaceutical and biotechnology companies, and early-stage drug discovery and development companies like us in particular, have historically been highly volatile and may continue to be highly volatile in the future. The following factors, in addition to other risk factors described in this section, may have a significant impact on the market price of our common stock:

- the development status of any drug candidates, such as Tovaxin, including clinical study results and determinations by regulatory authorities with respect thereto;
- the initiation, termination, or reduction in the scope of any collaboration arrangements or any disputes or developments regarding such collaborations;
- announcements of technological innovations, new commercial products or other material events by our competitors or us;
- disputes or other developments concerning our proprietary rights;
- changes in, or failure to meet, securities analysts' or investors' expectations of our financial performance;
- additions or departures of key personnel;
- discussions of our business, products, financial performance, prospects or stock price by the financial and scientific press and online investor communities;
- public concern as to, and legislative action with respect to, the pricing and availability of prescription drugs or the safety of drugs and drug delivery techniques; or
- regulatory developments in the United States and in foreign countries.

Broad market and industry factors, as well as economic and political factors, also may materially adversely affect the market price of our common stock.

We may be or become the target of securities litigation, which is costly and time-consuming to defend.

In the past, following periods of market volatility in the price of a company's securities or the reporting of unfavorable news, security holders have often instituted class action litigation. If the market value of our securities experience adverse fluctuations and we become involved in this type of litigation, regardless of the outcome, we could incur substantial legal costs and our management's attention could be diverted from the operation of our business, causing our business to suffer.

Our "blank check" preferred stock could be issued to prevent a business combination not desired by management or our current majority stockholders.

Our articles of incorporation authorize the issuance of "blank check" preferred stock with such designations, rights and preferences as may be determined by our Board of Directors without stockholder approval. Our preferred stock could be utilized as a method of discouraging, delaying, or preventing a change in our control and as a method of preventing stockholders from receiving a premium for their shares in connection with a change of control.

Future sales of our common stock in the public market could lower our stock price.

We sold (i) 2,550,000 shares of our common stock, and warrants to acquire another 1,275,000 shares, in a registered direct transaction in December 2009, (ii) an aggregate of 384,759 shares of common stock in January 2011 pursuant to an "at the market" continuous offering program, and (iii) an aggregate of 4,146,500 shares of our common stock, and warrants to acquire another 1,658,600 shares, in a public offering in February 2011. Sales of a substantial number of additional shares of our common stock in the public market could cause the market price of our common stock to decline. With the completion of the February 2011 public offering, an aggregate of 22,998,183 shares of common stock were outstanding as of February 28, 2011, and another 14,835,256 shares were issuable as of February 28, 2011, upon exercise of outstanding options or warrants. A substantial majority of the outstanding shares of our common stock are freely tradable without restriction or further registration under the Securities Act of 1933. We may sell additional shares of common stock, as well as securities convertible into or exercisable for common stock, in subsequent public or private offerings. We may also issue additional shares of common stock, as well as securities convertible into or exercisable for common stock, to finance future acquisitions. Among other requirements, we will need to raise significant additional capital, or secure a partnering arrangement, in order to undertake the planned pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, and this may require us to issue a substantial amount of securities (including common stock as well as securities convertible into or exercisable for common stock). We cannot predict the size of future issuances of our common stock, as well as securities convertible into or exercisable for common stock, or the effect, if any, that future issuances and sales of our securities will have on the market price of our common stock. Sales of substantial amounts of our common stock, as well as securities convertible into or exercisable for common stock, including shares issued in connection with an acquisition or securing funds to complete our clinical trial plans, or the perception that such sales could occur, may adversely affect prevailing market prices for our common stock.

We presently do not intend to pay cash dividends on our common stock.

We currently anticipate that no cash dividends will be paid on the common stock in the foreseeable future. While our dividend policy will be based on the operating results and capital needs of the business, it is anticipated that all earnings, if any, will be retained to finance the future expansion of our business.

Our stockholders may experience substantial dilution in the value of their investment if we issue additional shares of our capital stock.

Our charter allows us to issue up to 100,000,000 shares of our common stock and to issue and designate the rights of, without stockholder approval, up to 10,000,000 shares of preferred stock. In the event we issue additional shares of our capital stock, dilution to our stockholders could result. In addition, if we issue and designate a class of convertible preferred stock, these securities may provide for rights, preferences or privileges senior to, and thus adverse to, those of holders of our common stock.

We may issue debt and equity securities or securities convertible into equity securities, any of which may be senior to our common stock as to distributions and in liquidation, which could negatively affect the value of our common stock.

In the future, we may attempt to increase our capital resources by entering into debt or debt-like financing that is unsecured or secured by up to all of our assets, or by issuing additional debt or equity securities, which could include issuances of secured or unsecured commercial paper, medium-term notes, senior notes, subordinated notes, guarantees, preferred stock, hybrid securities, or securities convertible into or exchangeable for equity securities. In the event of our liquidation, our lenders and holders of our debt and preferred securities would receive distributions of our available assets before distributions to the holders of our common stock. Because our decision to incur debt and issue securities in future offerings may be influenced by market conditions and other factors beyond our control, we cannot predict or estimate the amount, timing or nature of our future offerings or debt financings. Further, market conditions could require us to accept less favorable terms for the issuance of our securities in the future.

Our management has significant flexibility in using the net proceeds of the February 2011 public offering.

In addition to general corporate purposes (including working capital and operational purposes), we currently intend to use the approximately \$7.6 million net proceeds from the February 2011 public offering to prepare for and proceed toward the initiation of a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, although the proceeds from such offering together with our existing resources would not be adequate to permit us to proceed materially beyond the initiation of such a study (*i.e.*, the dosing of the first patient) or to complete such study or any significant portion of it. A pivotal Phase III clinical study in the United States of Tovaxin in RR-MS is expected to involve 240 patients and take approximately two and one-half years to complete. If we are able to commence such a study in the second half of 2011, the costs of such study as well as the ongoing expenses of our operations through the expected completion date of such study are estimated at approximately \$35 million. Unless we secure at least a substantial portion of the additional resources that will be necessary to complete the planned Phase III study and support our operations during the pendency of such study, or we are reasonably confident that such resources will be secured, we would likely not proceed with the initiation of such study.

Depending on future developments and circumstances, we may use some of the proceeds from the February 2011 offering for other purposes. Notwithstanding our intention as to the use of the net proceeds from such offering, our management will have significant flexibility in applying such proceeds. The actual amounts and timing of expenditures will vary significantly depending on a number of factors, including the amount and timing of cash used in our operations and our research and development efforts. Management's failure to use these funds effectively would have an adverse effect on the value of our common stock and could make it more difficult and costly to raise funds in the future.

Item 1B. Unresolved Staff Comments.

None.

Item 2. Properties.

Our 10,200 square foot facility is located on three acres at 2635 Technology Forest Boulevard in The Woodlands, Texas. This location provides space for research and development and manufacturing capacity for clinical trials; a specialized Flow Cytometry and Microscopy lab; support of clinical trials with 800 square feet of cGMP manufacturing suites; Quality Systems management with a Quality Control Laboratory, Regulatory Affairs, and Quality Assurance; as well as administrative support space. Approximately 2,500 square feet of space remains available for future build-out. We lease the facility for a term ending in 2015 with two options for an additional five years each at the then prevailing market rate.

Item 3. Legal Proceedings.

We are not currently a party to any material legal proceedings.

Item 4. RESERVED.

PART II

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

Market Information and Holders

Our common stock is traded on the NASDAQ Capital Market under the symbol "OPXA." Our common stock has, from time to time, traded on a limited, sporadic and volatile basis.

The table below shows the high and low sales prices for our common stock for the periods indicated, as reported by NASDAQ.

	Price Ranges	
	High	Low
Fiscal Year Ended December 31, 2009		
First Quarter	\$ 0.70	\$ 0.15
Second Quarter	0.75	0.31
Third Quarter	6.93	0.36
Fourth Quarter	3.77	1.61

Fiscal Year Ended December 31, 2010

First Quarter	\$	2.86	\$	1.82
Second Quarter		3.07		1.43
Third Quarter		2.10		1.02
Fourth Quarter		1.66		1.29

The closing price of our common stock on February 28, 2011 was \$1.86 per share, and there were approximately 240 holders of record of our common stock. This number does not include stockholders for whom shares were held in "nominee" or "street name."

Dividends

We have never declared or paid any cash dividends on our common stock and we do not intend to pay cash dividends in the foreseeable future. We currently expect to retain any future earnings to fund the operation and expansion of our business.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table sets forth information, as of December 31, 2010, with respect to our compensation plans under which common stock is authorized for issuance, which consist of our 2010 Stock Incentive Plan and its predecessor, our June 2004 Compensatory Stock Option Plan. We believe that the exercise price for all of the options granted under these plans reflect at least 100% of fair market value on the dates of grant for the options at issue.

Equity Compensation Plan Information

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights (A)	Weighted Average Exercise Price of Outstanding Options, Warrants and Rights (B)	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column A) (C)
Equity Compensation Plans Approved by Stockholders	1,542,072	\$ 2.15	3,010,808
Equity Compensation Plans Not Approved by Stockholders	—	—	—
Total	1,542,072	\$ 2.15	3,010,080

Refer to Note 9 "Options and Warrants" in the Notes to our financial statements for the fiscal year ended December 31, 2010, included elsewhere in the annual report for a description of our 2010 Stock Incentive Plan and 2004 Compensatory Stock Option Plan.

Recent Sales of Unregistered Securities and Equity Purchases by Company

None.

Item 6. Selected Financial Data.

Not applicable.

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

The following discussion of our financial condition and results of operations should be read in conjunction with the accompanying financial statements and the related footnotes thereto.

Organizational Overview

We are a development-stage company and have a limited operating history. Our predecessor company for financial reporting purposes was formed on January 22, 2003 to acquire rights to an adult stem cell technology. In November 2004 we acquired Opexa Pharmaceuticals, Inc. and its MS treatment technology. In 2009, Novartis Pharmaceuticals acquired our stem cell technology. Currently we remain focused on developing our T-cell technology for MS. To date, we have not generated any commercial revenues from operations.

Critical Accounting Policies

Our discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with accounting principles generally accepted in the U.S. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities and expenses. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. We believe the following critical accounting policies affect our most significant judgments and estimates used in preparation of our financial statements.

Stock-Based Compensation. On January 1, 2006, we adopted the provisions of FASB ASC 718 which establishes accounting for equity instruments exchanged for employee service. We utilize the Black-Scholes option pricing model to estimate the fair value of employee stock based compensation at the date of grant, which requires the input of highly subjective assumptions, including expected volatility and expected life. Changes in these inputs and assumptions can materially affect the measure of estimated fair value of our share-based compensation. These assumptions are subjective and generally require significant analysis and judgment to develop. When estimating fair value, some of the assumptions will be based on, or determined from, external data and other assumptions may be derived from our historical experience with stock-based payment arrangements. The appropriate weight to place on historical experience is a matter of judgment, based on relevant facts and circumstances.

We estimated volatility by considering historical stock volatility. We have opted to use the simplified method for estimating the expected term of stock options equal to the midpoint between the vesting period and the contractual term.

Research and Development. The costs of materials and equipment or facilities that are acquired or constructed for research and development activities and that have alternative future uses are capitalized as tangible assets when acquired or constructed. The cost of such materials consumed in research and development activities and the depreciation of such equipment or facilities used in those activities are research and development costs. However, the costs of materials, equipment, or facilities acquired or constructed for research and development activities that have no alternative future uses are considered research and development costs and are expensed at the time the costs are incurred.

Accounting for Derivative Instruments. FASB ASC 815 requires all derivatives to be recorded on the balance sheet at fair value. These derivatives, if any, are separately valued and accounted for on our 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.

The pricing model we use for determining fair values of our derivatives is the Black-Scholes option-pricing model. Valuations derived from this model are subject to ongoing internal and external verification and review. The model uses market-sourced inputs such as interest rates, exchange rates and stock price volatilities. Selection of these inputs involves management's judgment and may impact net income.

In January 2009, we adopted new accounting guidance for determining whether an instrument (or embedded feature) is indexed to an entity's own stock. We evaluated all of our financial instruments and determined that the warrants associated with the August 2008 financing qualified for treatment under this new accounting guidance. As of January 1, 2009, we adjusted our financial statements to reclassify the fair value on these warrants as of January 1, 2009 in the amount of \$220,835 from additional paid in capital to derivative liabilities and the cumulative effect of the change in accounting principle in the amount of \$1,755,622 is recognized as an adjustment to the opening balance of retained earnings.

Results of Operations

Comparison of Year Ended December 31, 2010 with the Year Ended December 31, 2009

Net Sales. We recorded no commercial revenues for the years ended December 31, 2010 and 2009.

Research and Development Expenses. Research and development expenses were \$2,584,734 for the year ended December 31, 2010, compared to \$2,107,833 for the year ended December 31, 2009. The increase in expenses was primarily due to an increase in personnel, an increase in professional service fees and the initiation of key experiments in preparation for our next clinical trial, partially offset by a \$244,479 credit received from the Internal Revenue Service in payment for our application for the Qualifying Therapeutic Discovery Grant for qualifying 2009 research and development expenses. We have made and expect to continue to make substantial investments in research and development in order to develop and market our technology. We expense research and development costs as incurred. Acquired research and development that has no alternative future use is expensed when acquired. Property, plant and equipment for research and development that has an alternative future use is capitalized and the related depreciation is expensed.

General and Administrative Expenses. Our general and administrative expenses were \$2,216,043 for the year ended December 31, 2010, as compared to \$2,020,572 for the year ended December 31, 2009. The increase in expense is due to an increase in professional service fees as well as an increase in executive compensation costs, and was partially offset by a decrease in stock and bonus compensation expense.

Gain on Sale of Technology. We did not record a gain during the year ended December 31, 2010. We had a gain on sale of assets of \$3 million for the year ended December 31, 2009. This gain is attributable to the sale of our stem cell technology program to Novartis for an upfront payment of \$3 million. As there was no cost basis associated with the stem cell assets on the financial statements, the entire upfront payment was recognized as a gain on sale of technology.

Other Income and Expense, Net. Other income for the year ended December 31, 2010 was \$-0-, compared to \$554,242 for the year ended December 31, 2009. During 2009, we received an initial \$500,000 technology transfer fee pursuant to the terms of the stem cell technology acquisition agreement with Novartis.

Loss on Derivative Instruments. We recognized a loss on derivative instruments of \$366,774 for the year ended December 31, 2009. The loss is a result of the net unrealized (non-cash) change in the fair value of our derivative instrument liabilities related to warrants associated with the August 2008 financing which had been accounted for under FASB ASC 815 and which accounting treatment was discontinued on June 1, 2009.

Interest Expense. Interest expense was \$500,648 for the year ended December 31, 2010, compared to \$278,127 for the year ended December 31, 2009. The increase in interest expense was primarily related to the non-cash amortization of the remaining discount and deferred financing fees in connection with the June 23, 2010 conversion to common stock of \$1,250,000 in principal amount of convertible promissory notes.

Interest Income. Interest income was \$1,660 for the year ended December 31, 2010, compared to \$1,764 for the year ended December 31, 2009.

Net Loss. We had a net loss for the year ended December 31, 2010 of \$5,469,067, or \$0.32 per share (basic and diluted), compared with a net loss of \$1,433,922, or \$0.11 per share (basic and diluted), for the year ended December 31, 2009. The increase in net loss is primarily due to the absence of the \$3 million gain on technology sale and \$500,000 technology transfer fee milestone in the year ended December 31, 2010, as well as increases in research and development, general and administrative, and interest expenses.

Liquidity and Capital Resources

Historically, we have financed our operations primarily from the sale of debt and equity securities. As of December 31, 2010, we had cash and cash equivalents of \$3,812,535. Our financing activities generated \$0.04 million for the year ended December 31, 2010, compared to approximately \$6.9 million for the year ended December 31, 2009. The cash generated in 2009 was the result of \$1.13 million in net proceeds from a convertible note offering on April 14 and May 14, 2009, \$4.7 million in net proceeds from a registered direct offering on December 14, 2009 and \$1.1 million in net proceeds from the exercise of options and warrants.

During January 2011, we sold an aggregate of 384,759 shares of our common stock for net proceeds of \$1,066,266 under an "at the market" continuous offering program pursuant to a prospectus supplement dated May 17, 2010. During February 2011, we raised net proceeds of approximately \$7,622,800 through a public offering of common stock and warrants pursuant to a prospectus supplement dated February 8, 2011. Our current burn rate, which is in the absence of any clinical trial as well as significant activities in preparation for such a trial, is approximately \$380,000 per month. While we believe we have sufficient liquidity to support our operations through 2011, we will need to raise additional capital in the future to fund our current business plan and support our operations.

We currently intend to use the proceeds from the February 2011 public offering for general corporate purposes (including working capital and operational purposes) and to prepare for and proceed toward the initiation of a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, although the proceeds from such offering together with our existing resources would not be adequate to permit us to proceed materially beyond the initiation of such a study (*i.e.*, the dosing of the first patient) or to complete such study or any significant portion of it. A pivotal Phase III clinical study in the United States of Tovaxin in RR-MS is expected to involve 240 patients and take approximately two and one-half years to complete. If we are able to commence such a study in the second half of 2011, the costs of such study as well as the ongoing expenses of our operations through the expected completion date of such study are estimated at approximately \$35 million. Unless we secure at least a substantial portion of the additional resources that will be necessary to complete the planned Phase III study and support our operations during the pendency of such study, or we are reasonably confident that such resources will be secured, we would likely not proceed with the initiation of such study.

Given our need for substantial amounts of capital, in addition to the proceeds from the February 2011 offering, to undertake a pivotal Phase III clinical study in the United States of Tovaxin in RR-MS, we intend to continue to explore potential opportunities and alternatives to obtain the significant additional resources that will be necessary to complete the planned Phase III study and to support the operations of the Company during the pendency of such study. In addition to one or more additional financings, these opportunities and alternatives may include a partnering arrangement with a large biotech or pharmaceutical company. There can be no assurance that any such financings or partnering arrangement can be consummated on acceptable terms, if at all.

Assuming we are able to achieve financing which is sufficient to support the planned Phase III study in the United States and to support our operations during the pendency of such study, we are also preparing for a second pivotal Phase III clinical study in Europe. Any such second study would also depend upon the availability of sufficient resources.

We do not maintain any external lines of credit, or have commitments for equity funds, and should we need any additional capital in the future, management will be reliant upon "best efforts" debt or equity financings. As our prospects for funding, if any, develop during the fiscal year, we will assess our business plan and make adjustments accordingly. Although we have successfully funded our operations to date by attracting additional investors in our equity and debt securities, there is no assurance that our capital raising efforts will be able to attract additional necessary capital for our operations in the future. If we are unable to obtain additional funding for operations in the future, we may not be able to continue operations as proposed, requiring us to modify our business plan, curtail various aspects of our operations or cease operations.

Off-Balance Sheet Arrangements

None.

Inflation

We believe that inflation has not had a material impact on our results of operations for the two years ended December 31, 2010 and 2009, since inflation rates have generally remained at relatively low levels and our operations are not otherwise uniquely affected by inflation concerns.

Recently Issued Accounting Pronouncements

On July 1, 2009, the FASB officially launched the FASB Accounting Standards Codification, which has become the single official source of authoritative, nongovernmental U.S. Generally Accepted Accounting Principles, in addition to guidance issued by the Securities and Exchange Commission. The codification supersedes all prior FASB, AICPA, EITF, and related literature. The codification, which is effective for interim and annual periods ending after September 15, 2009, is organized into approximately 90 accounting topics. The FASB no longer issues new standards in the form of Statements, FASB Staff Positions, or Emerging Issues Task Force Abstracts. Instead, amendments to the codification are made by issuing "Accounting Standards Updates."

There were various other accounting standards and interpretations issued during 2010 and 2009, none of which are expected to have a material impact on the Company's financial position, operations or cash flows.

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

Not applicable.

Item 8. Financial Statements and Supplementary Data.

The financial statements and notes thereto and supplementary data required by this Item are presented beginning on page F-1 of this annual report on Form 10-K.

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

None.

Item 9A. Controls and Procedures.

Evaluation of Disclosure Controls and Procedures

In accordance with Exchange Act Rules 13a-15 and 15d-15, we carried out an evaluation, under the supervision and with the participation of management, including our Chief Executive Officer and Acting Chief Financial Officer, of the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report. Based on that evaluation, our Chief Executive Officer and Acting Chief Financial Officer concluded that our disclosure controls and procedures were effective as of December 31, 2010 in enabling us to record, process, summarize and report information required to be included in our periodic SEC filings within the required time period.

Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and Acting Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework in *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

Based on our evaluation under the framework in *Internal Control—Integrated Framework* issued by COSO, our management concluded that our internal control over financial reporting was effective as of December 31, 2010 in providing reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

This annual report does not include an attestation report of our registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by our registered public accounting firm pursuant to rules of the SEC that permit us to provide only management's report in this annual report.

Changes in Internal Control over Financial Reporting

There was no change in internal control over financial reporting (as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) during our fourth fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information.

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance.

Executive Officers

Our executive officers are elected by the Board of Directors and serve at the discretion of the Board. Our executive officers are as follows:

Name	Age	Position
Neil K. Warma	48	President, Chief Executive Officer, Acting Chief Financial Officer and Director
Jaye L. Thompson	45	Senior Vice President of Clinical Development and Regulatory Affairs
Donna R. Rill	57	Senior Vice President of Operations

Biographical information for our executive officers is set forth below:

Neil K. Warma has served as President and Chief Executive Officer since June 2008, as Director since September 2008 and as Acting Chief Financial Officer since March 2009. From July 2004 to September 2007, Mr. Warma served as president and chief executive officer of Viron Therapeutics Inc., a privately-held clinical stage biopharmaceutical company. From 2000 to 2003 Mr. Warma was co-founder and president of MedExact USA, Inc., an Internet company providing clinical information and services to physicians and pharmaceutical companies. From 1992 to 2000, Mr. Warma held senior positions of increasing responsibility at Novartis Pharmaceuticals (previously Ciba-Geigy Ltd.) at its corporate headquarters in Basel, Switzerland. While at Novartis, Mr. Warma served as the Head of International Pharma Policy & Advocacy and in senior management within global marketing where he worked on the international launch of a gastrointestinal product. Mr. Warma obtained an honors degree specializing in Neuroscience from the University of Toronto and an International M.B.A. from the Schulich School of Management at York University in Toronto. As our President and Chief Executive Officer, Mr. Warma is directly involved in all aspects of our operations. He has extensive experience in corporate business development within the biopharmaceutical industry, in addition to executive leadership and management experience.

Jaye L. Thompson, Ph.D., has served as Senior Vice President of Clinical Development and Regulatory Affairs since November 2009. From April 2006 to September 2009, Dr. Thompson served as Senior Vice President of Regulatory and Emerging Technologies for inVentiv Clinical Solutions, LLC, a subsidiary of inVentiv Health, Inc., a publicly traded company providing a wide range of services to the pharmaceutical industries. inVentiv Health acquired SYNERGOS, Inc., the company founded in 1991 by Dr. Thompson. SYNERGOS was a contract research organization helping companies move through the clinical and regulatory hurdles of product development. She currently serves as a director of Repros Therapeutics, Inc. Dr. Thompson received a doctorate and masters degree in Biostatistics from the University of Texas Health Science Center, School of Public Health, and a B.S. in Applied Mathematics from Texas A&M University.

Donna R. Rill has served as Senior Vice President of Operations since January 2009. From November 2004 until January 2009, she served as Vice President of Operations. From April 2003 to November 2004, she was the director of quality systems and process development at Opexa Pharmaceuticals, Inc. From November 1997 to April 2003, she was the director of translational research for the Center for Cell & Gene Therapy at Baylor College of Medicine. Ms. Rill has worked to design and qualify GMP Cell & Gene Therapy Laboratories, GMP Vector Production facilities, and Translational Research Labs at St. Jude Children's Research Hospital, Texas Children's Hospital, and Baylor College of Medicine. Ms. Rill received her B.S. in Medical Technology from the University of Tennessee, Memphis.

Directors

All of the current directors serve until the next annual stockholders' meeting or until their successors have been duly elected and qualified. Our current Board of Directors is as follows:

Name	Age	Position
David Hung	53	Director
David E. Jordan	48	Director
Michael S. Richman	50	Director
Scott B. Seaman	55	Director
Neil K. Warma	48	Director, President, Chief Executive Officer and Acting Chief Financial Officer

David Hung, M.D., has served as a Director since May 2006. Dr. Hung has served as the president, chief executive officer and as a director of Medivation, Inc. since December 2004. Dr. Hung also has served as the president and chief executive officer, and member of the board of directors, of Medivation, Inc.'s subsidiary, Medivation Neurology, Inc., since its inception in September 2003. From 1998 until 2001, Dr. Hung was employed by ProDuct Health, Inc., a privately held medical device company, as Chief Scientific Officer (1998-1999), and as president and chief executive officer (1999-2001). From December 2001 to January 2003, Dr. Hung served as a consultant to Cytoc Health Corporation. Dr. Hung received his M.D. from the University of California at San Francisco, and his A.B. in biology and organic chemistry from Harvard College. As the chief executive officer of a public biopharmaceutical company actively engaged in clinical drug development, Dr. Hung offers extensive experience in numerous aspects of managing a pre-commercialization drug development company, including strategic planning, clinical development, and strategic partnering.

David E. Jorden has served as a Director since August 2008. Mr. Jorden has served as executive board member for Cytomædix, Inc. since October 2008. Mr. Jorden previously served as vice president with Morgan Stanley in its Wealth Management group where he was responsible for equity portfolio management for high net worth individuals since 2003. Prior to Morgan Stanley, Mr. Jorden served as vice president and chief financial officer of Genometrix, Inc., a private genomics/life sciences company focused on high-throughput microarray applications from March 2000 to September 2002. Mr. Jorden was a principal with Favez Sarofim & Co. prior to joining Genometrix. Mr. Jorden earned a MBA from Kellogg School of Management at Northwestern University in 1989 and a BBA from the University of Texas/Austin in 1984. He currently serves as a director of Cytomædix, Inc. and PLx Pharma, Inc. Mr. Jorden is a Chartered Financial Analyst and Certified Public Accountant. He has extensive experience in various aspects of corporate finance and accounting for public companies including capital formation and deployment.

Michael S. Richman has served as a Director since June 2006. Mr. Richman has served as president and chief executive officer of Amplimmune, Inc. since July 2008. Mr. Richman served as president and chief operating officer of Amplimmune, Inc. from May 2007 to July 2008. From April 2002 to May 2007, Mr. Richman served as executive vice president and chief operating officer of MacroGenics, Inc. Mr. Richman joined MacroGenics, Inc. in 2002 with approximately 20 years experience in corporate business development within the biotechnology industry. Mr. Richman served as a director of Cougar Biotechnology from June 2006 to July 2009. Mr. Richman obtained his B.S. in Genetics/Molecular Biology at the University of California at Davis and his MSBA in International Business at San Francisco State University. He has extensive experience in business development and strategic planning for life science companies, as well as executive leadership and management experience.

Scott B. Seaman has served as a Director since April 2006. Mr. Seaman has served for over five years as the executive director and treasurer of the Albert and Margaret Alkek Foundation of Houston, Texas, a private foundation primarily supporting institutions in the Texas Medical Center in Houston, Texas. Since January 1996 to present, Mr. Seaman has served as the chief financial officer of Chaswil Ltd., an investment management company. Since September 1986, Mr. Seaman has served as secretary and treasurer of M & A Properties Inc., a ranching and real estate concern. In April 2009, Mr. Seaman became the Managing Member of ICT Development LLC which is the Managing Member of ICT Holdings LLC, an energy services supplier. From January 2003 to April 2009, Mr. Seaman served as chairman and from July 2004 to April 2009, as president of ICT Management Inc., the general partner of Impact Composite Technology Ltd., a composite industry supplier. From October 2007 to December 2010, Mr. Seaman served on the board of GeneExcel, Inc., a privately held biotechnology company. From May 2004 to December 2010, Mr. Seaman served as a Member of the Investment Committee of Global Hedged Equity Fund LP, a hedge fund. Mr. Seaman received a bachelor's degree in business administration from Bowling Green State University and is a certified public accountant. Mr. Seaman has extensive experience in overall financial management and corporate development, combined with operational and corporate governance experience.

Neil K. Warma—refer to "Executive Officers" section above for Mr. Warma's biographical information.

Audit Committee

The Board of Directors has established a standing Audit Committee currently composed of three non-employee directors, Messrs. Jorden, Richman and Seaman, each of whom the Board has determined is "independent" within the meaning of SEC rules and regulations and NASDAQ listing standards. The Audit Committee selects, on behalf of our Board, an independent public accounting firm to audit our financial statements, discusses with the independent auditors their independence, reviews and discusses the audited financial statements with the independent auditors and management, and recommends to our Board whether the audited financials should be included in our Annual Report to be filed with the SEC. The Board has determined that Messrs. Jorden and Seaman each qualifies as an "audit committee financial expert" as defined in SEC rules and regulations and also possesses the financial sophistication and requisite experience as required under NASDAQ listing standards.

Code of Ethics

In 2005, in accordance with SEC rules, the then Audit Committee and the Board of Directors adopted the Policy on Whistleblower Protection and Code of Ethics which is applicable to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, which we sometimes refer to as our senior financial officers. The Board of Directors believes that these individuals must set an exemplary standard of conduct, particularly in the areas of accounting, internal accounting control, auditing and finance. This Code of Ethics sets forth ethical standards to which the designated officers must adhere and other aspects of accounting, auditing and financial compliance. The Code of Ethics is available on our website at www.opexatherapeutics.com. Please note that the information contained on our website is not incorporated by reference in, or considered to be a part of, this document.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors and executive officers, and persons who beneficially own more than 10% of a registered class of our equity securities, to file with the SEC initial reports of ownership and reports of changes in ownership. These reporting persons are required by SEC regulations to furnish us with copies of all such reports they file. To our knowledge, based solely on our review of the copies of such reports furnished to us and written representations from certain insiders that no other reports were required, we believe all of the reporting persons complied with all applicable Section 16(a) filing requirements applicable to them with respect to transactions during the fiscal year ended December 31, 2010, except with respect to one report filed one day late by each of our outside directors, Dr. Hung and Messrs. Jorden, Richman and Seaman, to report two transactions each for the grant of stock options which are a part of our standard non-employee director compensation arrangements.

Item 11. Executive Compensation.

Executive Officer Compensation

The following table sets forth certain information concerning compensation earned by or paid to certain persons who we refer to as our "Named Executive Officers" for services provided for the fiscal year ended December 31, 2010. Our Named Executive Officers include persons who (i) served as our principal executive officer or acted in a similar capacity during 2010, (ii) were serving at fiscal year-end as our two most highly compensated executive officers, other than the principal executive officer, whose total compensation exceeded \$100,000, and (iii) if applicable, up to two additional individuals for whom disclosure would have been provided as a most highly compensated executive officer, but for the fact that the individual was not serving as an executive officer at fiscal year-end.

2010 Summary Compensation Table

Name and Principal Position	Year	Salary	Bonus	Options Awards ⁽¹⁾	All Other Compensation	Total
Neil K. Warma <i>President, Chief Executive Officer, Acting Chief Financial Officer and Director</i>	2010	\$ 362,083	\$ 50,000	—	—	\$ 412,083
	2009	\$ 312,083	\$ 142,500	\$ 235,117	—	\$ 689,700
Donna R. Rill <i>Senior Vice President of Operations</i>	2010	\$ 208,000	\$ 25,000	—	—	\$ 233,000
	2009	\$ 197,963	—	\$ 113,870 ⁽²⁾	—	\$ 311,833
Jaye L. Thompson ⁽³⁾ <i>Senior Vice President of Clinical Development and Regulatory Affairs</i>	2010	\$ 200,000	\$ 25,000	—	—	\$ 225,000
	2009	\$ 23,590	—	\$ 101,440	—	\$ 125,030

(1) Amounts in this column represent the aggregate grant date fair value of awards computed in accordance with Financial Accounting Standards Board Accounting Standards Codification Topic 718. See Note 9 to our financial statements included in this annual report on Form 10-K for assumptions underlying the valuation of equity awards.

(2) Includes Ms. Rill's accrued salary increase from 2008 totaling \$8,396 that was exchanged in February 2009 for a fully vested stock option to purchase 8,396 shares of Opexa common stock at an exercise price of \$0.47 per share, the market value on the date of grant.

(3) Dr. Thompson joined Opexa as an executive officer in November 2009.

Executive Employment Agreements

We entered into a three-year employment agreement on June 16, 2008 with Neil K. Warma pursuant to which he serves as our President and Chief Executive Officer. Pursuant to the agreement, Mr. Warma was paid \$285,000 for the first 12-month period, \$335,000 for the second 12-month period and is entitled to receive \$385,000 for the third 12-month period. In addition, Mr. Warma is entitled to the following: (i) an annual cash bonus of up to 50% of his base salary based upon milestones to be agreed upon; (ii) a one-time payment of \$50,000 cash and 25,000 shares of our common stock to be issued if and when the closing bid price of our common stock equals or exceeds \$4.00 for 20 consecutive trading days; and (iii) a 10-year stock option to purchase 250,000 shares of common stock with an exercise price of \$1.01 per share that vests 50,000 shares immediately and the balance quarterly in equal amounts over three years. In addition, we provided Mr. Warma with relocation assistance and our standard benefits and insurance coverage as generally provided to our management, as well as contractual indemnification rights by reason of his service as an officer and employee. If his employment is terminated by the Board without cause, as defined in the agreement, Mr. Warma will receive a severance payment equal to 12 months of his base salary plus a payment equal to 30% of base salary in lieu of any potential bonus, in addition any earned but unpaid bonus. In addition, vesting of stock options will accelerate in full. We will also reimburse Mr. Warma for COBRA expenses for a 12-month period, subject to a cap equal to Opexa's standard contribution to employee health benefits. Upon the effectiveness of a change in control, as defined in the agreement, Mr. Warma will receive 18 months of salary and COBRA reimbursement and a payment equal to 45% of base salary in lieu of any potential bonus, in addition to any earned but unpaid bonus. In addition, all vesting of options will accelerate in full. Any payment or benefit Mr. Warma might receive upon a change of control which would constitute a "parachute payment" under Section 280G of the Internal Revenue Code will be reduced so as not to trigger excise tax under Section 4999 of such Code. Mr. Warma's agreement also provides that for a 12-month period following his termination of employment, he will not engage or participate in any competitive business or solicit or recruit any of Opexa's employees. The severance and change of control benefits are subject to Mr. Warma executing and delivering a general release and waiver of claims in favor of Opexa. The agreement automatically renews for 12-month periods.

We entered into an amended and restated employment agreement with Donna R. Rill on April 21, 2010 which is effective as of April 1, 2010, pursuant to which Ms. Rill serves as our Senior Vice President of Operations. This agreement superseded Ms. Rill's prior agreement. Ms. Rill is compensated at the rate of \$200,000 per annum and is eligible to receive an annual discretionary bonus of up to 20% of her base salary per 12-month period, based on the achievement of objectives as determined by Opexa's Board and Chief Executive Officer, with the first measurement period ending on or about December 31, 2010. In addition, Ms. Rill receives our standard benefits and insurance coverage as generally provided to our management, as well as contractual indemnification rights by reason of her service as an officer and employee. The employment agreement may be terminated at any time voluntarily by her or without cause by the Board. If her employment is terminated by the Board without cause, as defined in the agreement, Ms. Rill will receive a severance payment equal to six months of her base salary and vesting for any unvested stock options will accelerate by six additional months. The severance benefits are subject to Ms. Rill having been continuously employed through the termination event, executing and delivering a general release and waiver of claims in favor of Opexa, not being in breach of the employment agreement or Opexa's proprietary information and inventions agreement, and not engaging in any activity which is competitive with Opexa during the term of the employment agreement or while receiving the severance benefits. The timing of any payments to Ms. Rill under the employment agreement are subject to applicable requirements of Section 409A of the Code and the related Treasury Regulations.

We entered into an employment agreement with Jaye L. Thompson, Ph.D. on November 16, 2009, pursuant to which Dr. Thompson serves as Senior Vice President of Clinical Development and Regulatory Affairs. Dr. Thompson is compensated at the rate of \$200,000 per annum and is eligible to receive an annual discretionary bonus of up to 20% of her base salary per 12-month period, based upon the achievement of objectives as determined by Opexa's Board and Chief Executive Officer, with the first measurement period ending on or about December 31, 2010. Pursuant to her employment agreement, Dr. Thompson received a 10-year stock option to purchase 50,000 shares of common stock at an exercise price of \$2.05 per share vesting quarterly in equal amounts over three years. In addition, Dr. Thompson receives our standard benefits and insurance coverage as generally provided to our management. The employment agreement may be terminated at any time voluntarily by her or without cause by the Board.

2010 Grants of Plan Based Awards

No stock options were granted to our Named Executive Officers during the fiscal year ended December 31, 2010.

2010 Outstanding Equity Awards at Fiscal Year-End

The following table presents information regarding outstanding equity awards at December 31, 2010 for each of the Named Executive Officers.

Name	Option Awards		Option Exercise Price	Option Expiration Date
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable		
Neil K. Warma	216,667	33,333 ⁽¹⁾	\$ 1.01	06/16/18
	150,000	—	\$ 0.22	01/16/19
	33,333	66,667 ⁽¹⁾	\$ 2.05	11/30/19
Donna R. Rill	6,000	—	\$ 7.00	12/05/15
	23,380	—	\$ 5.00	04/20/16
	32,000	—	\$ 5.47	06/18/17
	3,000	—	\$ 1.09	05/06/18
	27,500	5,500 ⁽¹⁾	\$ 1.17	06/26/18
	40,000	—	\$ 0.22	01/16/19
Jaye L. Thompson	8,396	—	\$ 0.47	02/06/19
	16,667	33,333 ⁽¹⁾	\$ 2.05	11/30/19
	16,667	33,333 ⁽¹⁾	\$ 2.05	11/30/19

(1) The shares vest quarterly over a three-year period from the grant date.

2010 Director Compensation

The following table presents summary information for the year ended December 31, 2010 regarding the compensation of the non-employee members of our Board of Directors.

Name	Fees Earned or Paid in Cash	Options Awards ⁽²⁾⁽³⁾⁽⁴⁾	Total
David Hung	—	\$ 39,667	\$ 39,667
David E. Jordan	\$ 60,000 ⁽¹⁾	\$ 39,667	\$ 99,667
Michael S. Richman	—	\$ 39,667	\$ 39,667
Scott B. Seaman	—	\$ 39,667	\$ 39,667

(1) Compensation for services as chair of the Audit Committee.

(2) Amounts in this column represent the aggregate grant date fair value of awards computed in accordance with Financial Accounting Standards Board Accounting Standards Codification Topic 718. See Note 9 to our financial statements included in this annual report on Form 10-K for assumptions underlying the valuation of equity awards.

(3) As compensation for Board services, each non-employee director was issued the following two options on April 30, 2010 to purchase shares of our common stock at an exercise price of \$2.25 per share, the market value on the date of grant: (i) an option to purchase 10,000 shares, with 50% vesting immediately upon grant and the remaining 50% vesting on April 30, 2011; and (ii) an option to purchase 7,889 shares in lieu of cash compensation for services, with 50% vesting on June 30, 2010 and the remaining 50% vesting on December 31, 2010.

(4) As of December 31, 2010, our non-employee directors held options to purchase the following aggregate number of shares of our common stock: Dr. Hung, 78,889 shares; Mr. Jordan, 60,769 shares; Mr. Richman, 121,539 shares; and Mr. Seaman, 129,039 shares.

Standard Compensation Arrangements

Employee directors do not receive any compensation for services as a member of our Board. We reimburse our directors for travel and lodging expenses in connection with their attendance at Board and committee meetings. As compensation for their services on our Board, in 2010 our non-employee directors were issued options to purchase shares of Opexa common stock in lieu of cash compensation. Each option is granted with an exercise price equal to the fair market value of Opexa's common stock on the date of grant and is issued either fully vested or with a vesting schedule over a period of time up to one year. In addition, we pay a quarterly retainer of \$15,000 in cash to the chair of our Audit Committee.

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

The following table sets forth, as of February 28, 2011, the number and percentage of outstanding shares of our common stock beneficially owned by: (a) each person who is known by us to be the beneficial owner of more than 5% of our outstanding shares of common stock; (b) each of our directors; (c) the Named Executive Officers; and (d) all current directors and executive officers, as a group. As of February 28, 2011 there were 22,998,183 shares of common stock issued and outstanding.

Beneficial ownership has been determined in accordance with Rule 13d-3 under the Exchange Act. Under this rule, certain shares may be deemed to be beneficially owned by more than one person (if, for example, persons share the power to vote or the power to dispose of the shares). In addition, shares are deemed to be beneficially owned by a person if the person has the right to acquire shares (for example, upon exercise of an option or warrant) within 60 days of the date as of which the information is provided. In computing the percentage ownership of any person, the amount of shares is deemed to include the amount of shares beneficially owned by such person by reason of such acquisition rights. As a result, the percentage of outstanding shares of any person as shown in the following table does not necessarily reflect the person's actual voting power at any particular date.

To our knowledge, except as indicated in the footnotes to this table and pursuant to applicable community property laws, the persons named in the table have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them.

Beneficial Ownership Table

Name and Address of Beneficial Owner ⁽¹⁾	Number of Shares Owned	Percentage of Class
Beneficial Owners of more than 5% :		
Albert and Margaret Alkek Foundation ⁽²⁾	2,341,130 ⁽³⁾	9.79%
Charles E. Sheedy ⁽⁴⁾	1,658,159 ⁽⁵⁾	7.01%
Visium Balanced Master Fund Ltd. ⁽⁶⁾	1,522,000 ⁽⁷⁾	6.56%
LBI Group, Inc. ⁽⁸⁾	1,461,754 ⁽⁹⁾	6.15%
Alkek & Williams Ventures Ltd. ⁽¹⁰⁾	1,427,323 ⁽¹¹⁾	6.05%
DLD Family Investments, LLC ⁽¹²⁾	1,263,374 ⁽¹³⁾	5.39%
Officers and Directors:		
Scott B. Seaman ⁽¹⁰⁾	1,630,090 ⁽¹⁴⁾	6.87%
David E. Jordan	1,564,886 ⁽¹⁵⁾	6.61%
Neil K. Warma	477,003 ⁽¹⁶⁾	2.04%
Donna R. Rill	167,553 ⁽¹⁷⁾	*
Michael S. Richman	116,539 ⁽¹⁸⁾	*
David Hung	91,462 ⁽¹⁹⁾	*
Jaye L. Thompson	27,230 ⁽²⁰⁾	*
All directors and executive officers as a group (7 persons)**	4,074,762 ⁽²¹⁾	16.13%

* Less than 1%

** Includes only current directors and officers serving in such capacity as of the date of the table.

(1) Unless otherwise indicated in the footnotes, the mailing address of the beneficial owner is c/o Opexa Therapeutics, Inc., 2635 Technology Forest Boulevard, The Woodlands, Texas 77381.

(2) This information is based on the Schedule 13D/A filed with the SEC on December 16, 2009, by Albert and Margaret Alkek Foundation (the "Foundation"), Alkek & Williams Ventures, Ltd. ("Ventures"), Scott Seaman, DLD Family Investments, LLC ("DLD Family"), and the other reporting persons named therein (the "Foundation 13D") and other information available to us. The Foundation acts through an investment committee of its board of directors, which includes Mr. Daniel Arnold, Mr. Joe Bailey, Mr. Scott Seaman and Ms. Randa Duncan Williams. Mr. Seaman is the executive director of the Foundation and chairman of the investment committee. The investment committee has sole voting and investment power over all of the shares of common stock beneficially owned by the Foundation. However, pursuant to the Foundation 13D, neither the executive director nor any member of the investment committee may act individually to vote or sell shares of common stock held by the Foundation; therefore, the Foundation has concluded that no individual committee member is deemed to beneficially own, within the meaning of Rule 13d-3 of the Exchange Act, any shares of common stock held by the Foundation solely by virtue of the fact that he or she is a member of the investment committee. Additionally, pursuant to the Foundation 13D, the Foundation has concluded that because Mr. Seaman, in his capacity as executive director or chairman of the investment committee, cannot act in such capacity to vote or sell shares of common stock held by the Foundation without the approval of the investment committee, he is not deemed to beneficially own, within the meaning of Rule 13d-3 of the Exchange Act, any shares of common stock held by the Foundation by virtue of his position as executive director or chairman of the investment committee. The mailing address of the beneficial owner is 1100 Louisiana, Suite 5250, Houston, Texas 77002.

- (3) Consisting of: (i) 1,432,965 shares of common stock; (ii) 250,000 shares of common stock underlying the April 2006 warrants; (iii) 250,000 shares of common stock underlying the Series E warrants; (iv) 158,165 shares of common stock underlying the Series F warrants; and (v) 250,000 shares of common stock underlying the Series G warrants. Pursuant to the Foundation 13D, the Foundation and other reporting persons named therein may be deemed to constitute a group for purposes of Section 13(d) or Section 13(g) of the Exchange Act. However, the Foundation, Ventures, Chaswil, Ltd. and Mr. Seaman expressly disclaim (i) that, for purposes of Section 13(d) or Section 13(g) of the Exchange Act, they are a member of a group with respect to securities of Opexa held by DLD Family, Mr. Arnold, Mr. Bailey or Ms. Williams and (ii) that they have agreed to act together with DLD Family, Mr. Arnold, Mr. Bailey or Ms. Williams as a group other than as described in the Foundation 13D. Therefore, this does not include the following securities: (i) 804,593 shares of common stock held by DLD Family; (ii) 110,000 shares of common stock underlying the April 2006 warrants held by DLD Family; (iii) 100,000 shares of common stock underlying Series E warrants held by DLD Family; (iv) 68,781 shares of common stock underlying Series F warrants held by DLD Family; (v) 100,000 shares of common stock underlying Series G warrants held by DLD Family; (vi) 80,000 shares of common stock underlying Series H warrants held by DLD Family; (vii) 26,667 shares of common stock held by Mr. Arnold; (viii) 10,000 shares of common stock underlying the April 2006 warrants held by Mr. Arnold; (ix) 5,000 shares of common stock underlying the April 2006 warrants held by Mr. Bailey; (x) 50,000 shares of common stock held by Mr. Bailey; (xi) 840,814 shares of common stock held by Ventures; (xii) 125,000 shares of common stock underlying the April 2006 warrants held by Ventures; (xiii) 200,000 shares of common stock underlying Series E warrants held by Ventures; (xiv) 61,509 shares of common stock underlying Series F warrants held by Ventures; (xv) 200,000 shares of common stock underlying Series G warrants held by Ventures; (xvi) 43,655 shares of common stock held by Mr. Seaman; (xvii) 7,500 shares of common stock underlying the April 2006 warrants held by Mr. Seaman; (xviii) 10,000 shares of common stock underlying Series E warrants held by Mr. Seaman; (xix) 17,573 shares of common stock underlying Series F warrants held by Mr. Seaman; and (xx) 124,039 shares of common stock underlying currently exercisable stock options held by Mr. Seaman.
- (4) Charles E. Sheedy exercises sole voting and dispositive power over all of the shares of common stock beneficially owned. The information in this footnote is primarily based on information reported on the Schedule 13G/A filed with the SEC on February 11, 2011 by Charles E. Sheedy and other information available to us. The mailing address of the beneficial owner is 909 Fannin Street, Suite 2907, Houston, Texas 77010.
- (5) Consisting of: (i) 998,423 shares of common stock; (ii) 50,000 shares of common stock underlying the April 2006 warrants; (iii) 150,000 shares of common stock underlying Series E warrants; (iv) 353,736 shares of common stock underlying Series F warrants; (v) 50,000 shares of common stock underlying the Series G warrants; and (vi) 56,000 shares of common stock underlying Series H warrants.
- (6) This information is based on the Schedule 13G filed with the SEC on February 18, 2011, by Visium Balanced Master Fund, Ltd. ("Visium"), Visium Asset Management, LP ("VAM"), JG Asset, LLC ("JGA"), and Jacob Gottlieb (the "Visium 13G") and other information available to us. Pursuant to the Visium 13G, (i) as investment manager to the pooled investment funds, VAM may be deemed to beneficially own the shares beneficially owned by the funds, (ii) as general partner to VAM, JGA may be deemed to beneficially own the shares beneficially owned by VAM, and (iii) as managing member of JGA, Mr. Gottlieb may be deemed the beneficial owner of the shares beneficially owned by JGA, and he has sole voting and dispositive power over the shares. VAM, JGA and Mr. Gottlieb disclaim beneficial ownership of the securities, except to the extent of his or its pecuniary interest therein. The mailing address of the beneficial owner is 950 Third Avenue, New York, NY 10022.
- (7) Includes 192,000 shares of common stock underlying Series H warrants held by Visium.
- (8) Lehman Brothers Holdings Inc. exercises sole voting and dispositive power over all of the shares of common stock beneficially owned by LBI Group Inc. The information in this footnote is primarily based on information reported on the Schedule 13G filed with the SEC on August 19, 2008 by LBI Group Inc. The mailing address of the beneficial owner is 399 Park Avenue, New York, New York 10022.
- (9) Consisting of: (i) 675,675 shares of common stock and (ii) 786,079 shares of common stock underlying Series F warrants.
- (10) Chaswil, Ltd. is the investment manager of Ventures and holds voting power and investment power with respect to Company securities held by Ventures pursuant to a written agreement. Scott B. Seaman is a principal of Chaswil, Ltd. and has shared voting power and shared investment power over all of the shares of common stock beneficially owned by Ventures. The information in this footnote is primarily based on the Foundation 13D and other information provided to us. The mailing address of the beneficial owner is 1100 Louisiana, Suite 5250, Houston, Texas 77002.
- (11) Consisting of: (i) 840,814 shares of common stock; (ii) 125,000 shares of common stock underlying the April 2006 warrants; (iii) 200,000 shares of common stock underlying Series E warrants; (iv) 61,509 shares of common stock underlying Series F warrants; and (v) 200,000 shares of common stock underlying Series G warrants.

- (12) Randa Duncan Williams is the principal of DLD Family and she may be deemed to exercise voting and investment power with respect to such shares. The information in this footnote is primarily based on the Foundation 13D and other information provided to us. The mailing address of the beneficial owner is P.O. Box 4735, Houston, Texas 77210-4735.
- (13) Consisting of: (i) 804,593 shares of common stock; (ii) 110,000 shares of common stock underlying the April 2006 warrants; (iii) 100,000 shares of common stock underlying Series E warrants; (iv) 68,781 shares of common stock underlying Series F warrants; (v) 100,000 shares of common stock underlying Series G warrants; and (vi) 80,000 shares of common stock underlying Series H warrants.
- (14) Consisting of: (i) 840,814 shares of common stock held by Ventures; (ii) 125,000 shares of common stock underlying the April 2006 warrants held by Ventures; (iii) 200,000 shares of common stock underlying Series E warrants held by Ventures; (iv) 61,509 shares of common stock underlying Series F Warrants held by Ventures; (v) 200,000 shares of common stock underlying Series G warrants held by Ventures; (vi) 124,039 shares underlying currently exercisable stock options held by Mr. Seaman; (vii) 7,500 shares of common stock underlying the April 2006 warrants held by Mr. Seaman; (viii) 10,000 shares of common stock underlying Series E warrants held by Mr. Seaman; (ix) 17,573 shares of common stock underlying Series F warrants held by Mr. Seaman; and (x) 43,655 shares of common stock held by Mr. Seaman. (See footnotes 10 and 11 for additional discussion of the information set forth in clauses (i) through (v) of the preceding sentence.) Pursuant to the Foundation 13D, this does not include the following shares which Mr. Seaman has determined he does not have beneficial ownership of or has disclaimed beneficial ownership: (i) 1,432,965 shares of common stock held by the Foundation; (ii) 250,000 shares of common stock underlying the April 2006 warrants held by the Foundation; (iii) 250,000 shares of common stock underlying Series E warrants held by the Foundation; (iv) 158,165 shares of common stock underlying Series F warrants held by the Foundation; and (v) 250,000 shares of common stock underlying Series G warrants held by the Foundation. (See footnotes 2 and 3 for additional discussion of the information set forth in clauses (i) through (v) of the preceding sentence.) The mailing address of the beneficial owner is 1100 Louisiana, Suite 5250, Houston, Texas 77002.
- (15) Consisting of: (i) 890,000 shares of common stock (ii) 60,000 shares of common stock underlying the April 2006 warrants; (iii) 145,000 shares of common stock underlying Series E warrants; (iv) 314,117 shares of common stock underlying Series F warrants; (v) 100,000 shares of common stock underlying the Series G Warrants; and (vi) 55,769 shares of common stock underlying currently exercisable stock options.
- (16) Consisting of: (i) 32,234 shares of common stock; (ii) 3,515 shares of common stock underlying Series F warrants; (iii) 10,000 shares of common stock underlying Series G Warrants; and (iv) 431,254 shares of common stock underlying currently exercisable stock options.
- (17) Consisting of: (i) 1,610 shares of common stock and (ii) 165,943 shares of common stock underlying currently exercisable stock options.
- (18) Consisting of 116,539 shares of common stock underlying currently exercisable stock options.
- (19) Consisting of: (i) 17,573 shares of common stock underlying Series F warrants and (ii) 73,889 shares of common stock underlying currently exercisable stock options.
- (20) Consisting of: (i) 4,313 shares of common stock and (ii) 22,917 shares of common stock underlying currently exercisable stock options.
- (21) Consisting of: (a) the following held by Mr. Seaman or for which Mr. Seaman may be deemed to have voting and investment power: (i) 840,814 shares of common stock held by Ventures; (ii) 125,000 shares of common stock underlying the April 2006 warrants held by Ventures; (iii) 200,000 shares of common stock underlying Series E warrants held by Ventures; (iv) 61,509 shares of common stock underlying Series F warrants held by Ventures; (v) 200,000 shares of common stock underlying Series G warrants held by Ventures; (vi) 124,039 shares of common stock underlying currently exercisable stock options held by Mr. Seaman; (vii) 7,500 shares of common stock underlying the April 2006 warrants held by Mr. Seaman; (viii) 10,000 shares of common stock underlying Series E warrants held by Mr. Seaman; (ix) 17,573 shares of common stock underlying Series F warrants held by Mr. Seaman; and (x) 43,655 shares of common stock held by Mr. Seaman; (b) the following held by Mr. Jordan: (i) 890,000 shares of common stock; (ii) 60,000 shares of common stock underlying the April 2006 warrants; (iii) 145,000 shares of common stock underlying Series E warrants; (iv) 314,117 shares of common stock underlying Series F warrants; (v) 100,000 shares underlying Series G warrants; and (vi) 55,769 shares of common stock underlying currently exercisable stock options; (c) the following held by Mr. Warm: (i) 32,234 shares of common stock; (ii) 3,515 shares of common stock underlying Series F warrants; (iii) 10,000 shares of common stock underlying Series G warrants; and (iv) 431,254 shares of common stock underlying currently exercisable stock options; (d) 1,610 shares of common stock and 165,943 shares of common stock underlying currently exercisable stock options held by Ms. Rill; (e) 116,539 shares of common stock underlying currently exercisable stock options held by Mr. Richman; (f) the following held by Dr. Hung: (i) 17,573 shares of common stock underlying Series F warrants; and (ii) 73,889 shares of common stock underlying currently exercisable stock options; and (g) 4,313 shares of common stock and 22,917 shares of common stock underlying currently exercisable stock options held by Dr. Thompson.

Item 13. Certain Relationships and Related Transactions, and Director Independence.**Transactions with Related Persons**

The Audit Committee of our Board is responsible for oversight and review of any related person transactions. We have no related person transactions that require disclosure under this section.

Director Independence

The Board has determined that Dr. Hung and Messrs. Jordan, Richman and Seaman are each an independent director within the meaning of NASDAQ listing standards, which directors constitute a majority of the Board. The Board has determined that each member of the Board's Audit, Compensation and Nominating and Corporate Governance Committees is independent (or similarly designated) based on the Board's application of the standards of NASDAQ, the rules and regulations promulgated by the SEC or the Internal Revenue Service, as appropriate for such committee membership. The current members of these committees are as follows:

Director	Independent	Audit Committee	Compensation Committee	Nominating and Corporate Governance Committee
David Hung	X		X	X
David E. Jordan	X	X		X
Michael S. Richman	X	X	X	
Scott B. Seaman	X	X	X	X

Item 14. Principal Accountant Fees and Services.

The following table presents the estimated aggregate fees billed by MaloneBailey, LLP for services performed during our last two fiscal years.

	Years Ended December 31,	
	2010	2009
Audit fees ⁽¹⁾	\$ 74,185	\$ 75,375
Tax fees ⁽²⁾	10,410	—
All other fees ⁽³⁾	7,340	7,125
	\$ 91,935	\$ 82,500

- (1) Audit fees include professional services rendered for (i) the audit of our annual financial statements for the fiscal years ended December 31, 2009 and 2010, (ii) the reviews of the financial statements included in our quarterly reports on Form 10-Q for such years and (iii) the issuance of consents and other matters relating to registration statements filed by us.
- (2) Tax fees include professional services relating to preparation of the annual tax return.
- (3) Other fees include professional services for review of various filings and issuance of consents.

Policy on Audit Committee Pre-Approval and Permissible Non-Audit Services of Independent Auditors

The Board's policy is to pre-approve all audit and permissible non-audit services provided by the independent auditors. These services may include audit services, audit-related services, tax services and other services. Pre-approval is generally provided for up to one year and any pre-approval is detailed as to the particular service or category of services and is generally subject to a specific budget. The independent auditors and management are required to periodically report to the Board regarding the extent of services provided by the independent auditors in accordance with this pre-approval, and the fees for the services performed to date. The Board of Directors may also pre-approve particular services on a case-by-case basis. The Audit Committee pre-approved 100% of the tax services and other services provided by our independent auditors during the last two fiscal years.

PART IV

Item 15. Exhibits and Financial Statement Schedules.

(a) 1. Financial Statements

INDEX TO FINANCIAL STATEMENTS

Audited Financial Statements for years ended December 31, 2010 and 2009 and the period from January 22, 2003 (Inception) through December 31, 2010

Report of Independent Registered Public Accounting Firm	F-1
Balance Sheets as of December 31, 2010 and 2009	F-2
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2. Financial Statement Schedules

The required information is included in the financial statements or notes thereto.

3. List of Exhibits

Exhibit No.	Description
2.1	Stock Purchase Agreement by and among Sportan United Industries, Inc., Jason G. Otteson, PharmaFrontiers Corp., Warren C. Lau and other PharmaFrontiers stockholders, dated May 5, 2004 (incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed June 4, 2004, File No. 000-25513).
2.2	Agreement and Plan of Reorganization by and among PharmaFrontiers Corp., Pharma Acquisition Corp and Opexa Pharmaceuticals, Inc. dated October 7, 2004 (incorporated by reference to Exhibit 2.1 to the Company's Current Report on 8-K filed October 8, 2004, File No. 000-25513).
3.1	Articles of Amendment and Restatement of the Articles of Incorporation (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on June 19, 2006).
3.2	Articles of Amendment to the Amended and Restated Articles of Incorporation (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on November 13, 2009).
3.3*	Amended and Restated By-laws, as amended.
4.1	Form of Common Stock Certificate (incorporated by reference to Exhibit 4.7 to the Company's Registration Statement on Form S-3 filed on November 13, 2009, File No. 333-163108).
4.2	Purchase Agreement dated April 11, 2006 by and among the Company and the Investors named therein for April 2006 common stock and warrant offering (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.3	Form of Warrant issued in connection with April 2006 offering (incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.4	Registration Rights Agreement dated April 11, 2006 by and among the Company and the Investors named therein for April 2006 offering common stock and warrants (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.5	Form of Series E Warrant (incorporated by reference to Exhibit 4.2 to the Company's Registration Statement on Form SB-2 (Amendment No. 1) filed December 20, 2007, File No. 333-147167).

Exhibit No.	Description
4.6	Warrant Agent Agreement by and between the Company and Continental Stock Transfer & Trust Company dated February 13, 2008 for the Series E Warrants (incorporated by reference to Exhibit 4.3 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.7	Form of Underwriters' Warrant Agreement by and between the Company and each underwriter party thereto for the Series E Warrants (incorporated by reference to Exhibit 4.4 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.8	Form of Underwriters' Warrant to Acquire Warrants Agreement by and between the Company and each underwriter party thereto for the Series E Warrants (incorporated by reference to Exhibit 4.5 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.9	Unit Purchase Agreement dated August 8, 2008 by and among the Company and the Investors named therein in connection with Unit offering of common stock and Series F Warrants (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.10	Form of Series F Warrant issued in connection with August 8, 2008 financing (incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.11	Registration Rights Agreement dated August 8, 2008 between the Company and the Investors named therein in connection with common stock and Series F Warrants (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.12	Unit Purchase Agreement dated April 14, 2009 by and among the Company and the Investors party thereto for the 10% Convertible Notes and Series G Warrants (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed April 16, 2009).
4.13	Form of Series G Warrant issued by the Company on April 14, 2009 (incorporated by reference to Exhibit 10.4 of the Company's Current Report on Form 8-K filed April 16, 2009).
4.14	Placement Agent Agreement dated December 9, 2009 by and between the Company and Rodman & Renshaw, LLC for Unit offering of Common Stock and Series A and Series B Warrants (incorporated by reference to Exhibit 1.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.15	Form of Securities Purchase Agreement dated as of December 9, 2009 by and between the Company and each investor signatory thereto for Unit offering of Common Stock and Series A and Series B Warrants (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.16	Form of Common Stock Purchase Warrant for Series A and Series B Warrants (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.17	Form of Series H Warrant issued by the Company on February 11, 2011 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed February 8, 2011).
10.1+	Opexa Therapeutics, Inc. June 2004 Compensatory Stock Option Plan (incorporated by reference to Exhibit B to the Company's Definitive Information Statement on Schedule 14C filed on June 29, 2004, File No. 000-25513).
10.2+	Certificate of Amendments to the Opexa Therapeutics, Inc. June 2004 Compensatory Stock Option Plan (incorporated by reference to Exhibit 10.15 of the Company's Annual Report on Form 10-K filed March 5, 2010).
10.3+	Employment Agreement dated June 16, 2008 by and between the Company and Neil K. Warna (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on June 18, 2008).
10.4+	Employment Agreement dated April 14, 2009 between the Company and Donna R. Rill (incorporated by reference to Exhibit 10.6 of the Company's Current Report on Form 8-K filed April 16, 2009).
10.5+	Amended and Restated Employment Agreement entered into on April 21, 2010 by and between the Company and Donna R. Rill (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 8-K filed April 27, 2010).
10.6+	Employment Agreement dated November 16, 2009 by and between the Company and Jaye L. Thompson.
10.7	License Agreement dated September 5, 2001 by and between the Company and Baylor College of Medicine (incorporated by reference to Exhibit 10.14 to the Company's Annual Report on Form 10-KSB filed April 15, 2005, File No. 000-25513).

Exhibit No.	Description
10.8	Lease dated August 19, 2005 by and between the Company and Dirk D. Laukien (incorporated by reference to Exhibit 10.13 to the Company's Annual Report on Form 10-KSB filed March 31, 2006).
10.9	License Agreement dated January 13, 2006 by and between the Company and Shanghai Institute for Biological Services (incorporated by reference to Exhibit 10.23 to the Company's Registration Statement on Form SB-2 (Amendment No. 1) filed February 9, 2006, File No. 333-126687).
10.10	Second Amended and Restated License Agreement dated July 31, 2007 by and between the Company and the University of Chicago (incorporated by reference to Exhibit 10.1 of the Company's Report on Form 8-K filed August 3, 2007).
10.11++	Asset Purchase Agreement by and between the Company and Novartis Institutes for Biomedical Research, Inc. dated August 6, 2009 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed August 7, 2009).
10.12+	Opexa Therapeutics, Inc. 2010 Stock Incentive Plan (incorporated by reference to Appendix A to the Company's Schedule 14A definitive proxy statement filed September 14, 2010).
10.13+	Form of award agreement for awards to be made under the Opexa Therapeutics, Inc. 2010 Stock Incentive Plan (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K filed October 22, 2010).
10.14	Continuous Offering Program Agreement dated May 14, 2010 by and between the Company and Rodman & Renshaw, LLC (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed on May 17, 2010) (subsequently terminated February 7, 2011 as disclosed in the Company's Current Report on Form 8-K filed on February 7, 2011).
23.1*	Consent of Independent Registered Public Accounting Firm MaloneBailey, LLP, dated March 8, 2011 to the incorporation by reference of their report dated March 8, 2011, in the Company's Registration Statements on Form S-8 and S-3.
31.1*	Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

* Filed herewith

+ Management contract or compensatory plan or arrangement.

++ Confidential treatment has been requested as to certain portions of this Exhibit pursuant to Rule 406 promulgated under the Securities Act. Such portions have been omitted and filed separately with the SEC.

SIGNATURES

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

OPEXA THERAPEUTICS, INC.

By: /s/ NEIL K. WARMA

Neil K. Warma
President, Chief Executive Officer and
Acting Chief Financial Officer

Date: March 8, 2011

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

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ NEIL K. WARMA</u> Neil K. Warma	President and Chief Executive Officer <i>(Principal Executive Officer)</i> Acting Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i> Director	March 8, 2011
<u>/s/ DAVID HUNG</u> David Hung	Director	March 8, 2011
<u>/s/ DAVID E. JORDEN</u> David E. Jordan	Director	March 8, 2011
<u>/s/ MICHAEL S. RICHMAN</u> Michael S. Richman	Director	March 8, 2011
<u>/s/ SCOTT B. SEAMAN</u> Scott B. Seaman	Director	March 8, 2011

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors
Opexa Therapeutics, Inc.
(a development stage company)
The Woodlands, Texas

We have audited the accompanying balance sheets of Opexa Therapeutics, Inc. (a development stage company), as of December 31, 2010 and 2009 and the related statements of expenses, changes in stockholders' equity and cash flows for the years then ended and for the period from January 22, 2003 (Inception) through December 31, 2010. These financial statements are the responsibility of Opexa's management. Our responsibility is to express an opinion on these financial statements based on our audits.

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

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Opexa as of December 31, 2010 and 2009 and the results of its operations and its cash flows for the years then ended and for the period from January 22, 2003 (Inception) through December 31, 2010 in conformity with accounting principles generally accepted in the United States of America.

/s/ MALONEBAILEY, LLP
www.malone-bailey.com
Houston, Texas

March 8, 2011

OPEXA THERAPEUTICS, INC.
(a development stage company)

BALANCE SHEETS

	<u>December 31,</u> <u>2010</u>	<u>December 31,</u> <u>2009</u>
Assets		
Current assets:		
Cash and cash equivalents	\$ 3,812,535	\$ 8,181,582
Other current assets	85,525	187,306
	<u>3,898,060</u>	<u>8,368,888</u>
Property & equipment, net of accumulated depreciation of \$1,109,558 and \$1,029,241, respectively	815,958	949,910
	<u>\$ 4,714,018</u>	<u>\$ 9,318,798</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 358,837	\$ 593,011
Accounts payable—related parties	15,000	32,591
Accrued expenses	335,861	141,065
Current maturity of loan payable	35,607	67,307
	<u>745,305</u>	<u>833,974</u>
Long term liabilities:		
Convertible promissory notes, net of discount of \$0 and \$314,749	—	987,251
Loan payable	—	35,625
Accrued interest	—	86,800
	<u>745,305</u>	<u>1,943,650</u>
Commitments and contingencies		
	—	—
Stockholders' equity:		
Preferred stock, no par value, 10,000,000 shares authorized, none issued and outstanding	—	—
Common stock, \$0.01 par value, 100,000,000 shares authorized, 18,466,924 and 15,476,222 shares issued and outstanding	184,670	154,762
Additional paid in capital	98,496,382	96,463,658
Deficit accumulated during the development stage	(94,712,339)	(89,243,272)
	<u>3,968,713</u>	<u>7,375,148</u>
	<u>\$ 4,714,018</u>	<u>\$ 9,318,798</u>

See accompanying summary of accounting policies and notes to financial statements

OPEXA THERAPEUTICS, INC.
(a development stage company)

STATEMENTS OF EXPENSES
Years ended December 31, 2010 and 2009 and the
Period from January 22, 2003 (Inception) to December 31, 2010

	2010	2009	Inception through 2010
Research and development	\$ 2,584,734	\$ 2,107,833	\$ 66,838,837
General and administrative	2,216,043	2,020,572	25,202,806
Depreciation	168,843	214,851	1,136,229
Loss on disposal of fixed assets	459	1,771	500,562
Operating loss	<u>(4,970,079)</u>	<u>(4,345,027)</u>	<u>(93,678,434)</u>
Interest income	1,660	1,764	1,357,485
Other income and expense, net	—	554,242	661,146
Gain on extinguishment of debt	—	—	1,612,440
Gain (loss) on derivative instruments	—	(366,774)	1,388,848
Gain on sale of technology	—	3,000,000	3,000,000
Interest expense	(500,648)	(278,127)	(9,053,824)
Net loss	<u>\$ (5,469,067)</u>	<u>\$ (1,433,922)</u>	<u>\$ (94,712,339)</u>
Basic and diluted loss per share	\$ (0.32)	\$ (0.11)	
Weighted average shares outstanding	17,071,691	12,556,056	

See accompanying summary of accounting policies and notes to financial statements

OPEXA THERAPEUTICS, INC.
(a development stage company)

STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY
Period from January 22, 2003 (Inception) through December 31, 2010

	<u>Common Stock</u>		<u>Additional Paid in Capital</u>	<u>Accumulated Deficit</u>	<u>Total</u>
	<u>Shares</u>	<u>Par</u>			
Shares issued for cash	525,000	\$ 262,500	\$ (261,500)	\$ —	\$ 1,000
Shares repurchased and cancelled	(170,625)	(85,313)	84,988	—	(325)
Discount related to:					
beneficial conversion feature	—	—	28,180	—	28,180
warrants attached to debt	—	—	28,180	—	28,180
Net loss	—	—	—	(126,003)	(126,003)
Balances at December 31, 2003	354,375	177,187	(120,152)	(126,003)	(68,968)
Shares issued for:					
cash	2,250	1,125	7,875	—	9,000
services	206,500	103,250	745,750	—	849,000
license	24,269	12,135	414,940	—	427,075
reverse merger with Sportan	99,740	49,870	(197,603)	—	(147,733)
acquisition of Opexa	250,000	125,000	23,625,000	—	23,750,000
additional shares attached to convertible debt	16,100	8,050	280,316	—	288,366
conversion of convertible notes	60,750	30,375	217,995	—	248,370
Shares cancelled	(8,000)	(4,000)	4,000	—	—
Discount related to:					
beneficial conversion feature	—	—	855,849	—	855,849
warrants attached to debt	—	—	1,848,502	—	1,848,502
Option expense	—	—	123,333	—	123,333
Net loss	—	—	—	(31,411,736)	(31,411,736)
Balances at December 31, 2004	1,005,984	502,992	27,805,805	(31,537,739)	(3,228,942)
Shares issued for:					
cash, net of offering costs	389,451	194,725	5,151,492	—	5,346,217
convertible debt	611,026	305,513	7,343,933	—	7,649,446
debt	2,300	1,150	159,850	—	161,000
license	29,194	14,597	1,853,787	—	1,868,384
services	24,000	12,000	1,000,400	—	1,012,400
Discount related to:					
beneficial conversion feature	—	—	831,944	—	831,944
warrants attached to debt	—	—	1,433,108	—	1,433,108
Option expense	—	—	2,487,741	—	2,487,741
Warrant expense	—	—	2,373,888	—	2,373,888
Transition of warrants from equity instruments to liability instruments	—	—	(10,658,496)	—	(10,658,496)
Net loss	—	—	—	(14,856,724)	(14,856,724)
Balances at December 31, 2005	2,061,955	1,030,977	39,783,452	(46,394,463)	(5,580,034)

See accompanying summary of accounting policies and notes to financial statements

OPEXA THERAPEUTICS, INC.
(a development stage company)

STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY—(Continued)
Period from January 22, 2003 (Inception) through December 31, 2010

	<u>Common Stock</u>		<u>Additional Paid in Capital</u>	<u>Accumulated Deficit</u>	<u>Total</u>
	<u>Shares</u>	<u>Par</u>			
Shares issued for:					
cash, net of offering costs	4,600,000	2,300,000	18,853,519	—	21,153,519
debt	34,829	17,374	162,626	—	180,000
Option expense	—	—	2,749,617	—	2,749,617
Warrant expense	—	—	1,568,966	—	1,568,966
Net loss	—	—	—	(12,649,170)	(12,649,170)
Balances at December 31, 2006	6,696,784	3,348,351	63,118,180	(59,043,633)	7,422,898
Cumulative change in derivative liability	—	—	10,658,496	(4,001,820)	6,656,676
Option expense	—	—	1,876,103	—	1,876,103
Warrant expense	—	—	845,275	—	845,275
Net loss	—	—	—	(14,667,367)	(14,667,367)
Balances at December 31, 2007	6,696,784	3,348,351	76,498,054	(77,712,820)	2,133,585
Shares issued for:					
cash, net of offering costs	5,503,874	2,751,937	5,899,642	—	8,651,579
services	45,200	22,600	26,365	—	48,965
Issuance of warrants for cash	—	—	603,850	—	603,850
Option expense	—	—	1,901,570	—	1,901,570
Net loss	—	—	—	(11,852,152)	(11,852,152)
Balances at December 31, 2008	12,245,858	6,122,888	84,929,481	(89,564,972)	1,487,397
Cumulative effect of change in accounting principle	—	—	(1,976,457)	1,755,622	(220,835)
Par value adjustment	—	(6,329,888)	6,329,888	—	—
Reduction in derivative liability	—	—	587,609	—	587,609
Discount on convertible notes	—	—	439,493	—	439,493
Discount on warrants	—	—	37,453	—	37,453
Shares issued for:					
cash, net of offering costs	2,550,000	25,500	4,663,665	—	4,689,165
exercise of options	60,400	26,280	37,324	—	63,604
exercise of warrants	619,964	309,982	764,953	—	1,074,935
Option expense	—	—	650,249	—	650,249
Net loss	—	—	—	(1,433,922)	(1,433,922)
Balances at December 31, 2009	15,476,222	154,762	96,463,658	(89,243,272)	7,375,148
Shares issued for:					
conversion of convertible notes	2,760,181	27,602	1,352,489	—	1,380,091
exercise of options	141,520	1,416	108,225	—	109,641
exercise of warrants	34,001	340	(340)	—	—
services	55,000	550	63,800	—	64,350
Option expense	—	—	508,550	—	508,550
Net loss	—	—	—	(5,469,067)	(5,469,067)
Balances at December 31, 2010	<u>18,466,924</u>	<u>\$ 184,670</u>	<u>\$ 98,496,382</u>	<u>\$ (94,712,339)</u>	<u>\$ 3,968,713</u>

See accompanying summary of accounting policies and notes to financial statements

OPEXA THERAPEUTICS, INC.
(a development stage company)

STATEMENTS OF CASH FLOWS
Years ended December 31, 2010 and 2009 and the
Period from January 22, 2003 (Inception) to December 31, 2010

	<u>2010</u>	<u>2009</u>	<u>Inception through 2010</u>
Cash flows from operating activities			
Net loss	\$ (5,469,067)	\$ (1,433,922)	\$ (94,712,339)
Adjustments to reconcile net loss to net cash used in operating activities			
Stock payable for acquired research and development	—	—	112,440
Stock issued for acquired research and development	—	—	26,286,589
Stock issued for services	64,350	—	1,974,715
Stock issued for debt in excess of principal	—	—	109,070
Amortization of discount on notes payable due to warrants and beneficial conversion feature	314,749	124,744	6,752,698
Gain on extinguishment of debt	—	—	(1,612,440)
Depreciation	168,843	214,851	1,136,229
Amortization of debt financing costs	108,117	50,351	524,378
Option and warrant expense	508,550	650,249	15,085,293
Loss (gain) on derivative instruments	—	366,774	(1,388,848)
Loss on disposal of fixed assets	459	1,771	500,562
Changes in:			
Accounts receivable	(26,245)	—	(26,245)
Prepaid and other expenses	19,909	7,516	(475,953)
Accounts payable – third parties and related parties	(251,765)	(19,360)	(76,213)
Accrued expenses	186,087	28,593	287,297
Net cash used in operating activities	<u>(4,376,013)</u>	<u>(8,433)</u>	<u>(45,522,767)</u>
Cash flows from investing activities			
Purchase of property & equipment	(35,350)	—	(1,374,861)
Net cash used in investing activities	<u>(35,350)</u>	<u>—</u>	<u>(1,374,861)</u>
Cash flows from financing activities			
Common stock and warrants sold for cash, net of offering costs	—	4,689,165	40,454,331
Common stock repurchased and canceled	—	—	(325)
Proceeds from exercise of warrants and options	109,641	1,138,947	1,248,588
Proceeds from debt	—	1,180,985	9,283,184
Repayments on loan payable	(67,325)	(62,269)	(275,615)
Net cash provided by financing activities	<u>42,316</u>	<u>6,946,828</u>	<u>50,710,163</u>
Net change in cash and cash equivalents	(4,369,047)	6,938,395	3,812,535
Cash and cash equivalents at beginning of period	8,181,582	1,243,187	—
Cash and cash equivalents at end of period	<u>\$ 3,812,535</u>	<u>\$ 8,181,582</u>	<u>\$ 3,812,535</u>
Cash paid for:			
Income tax	\$ —	\$ —	\$ —
Interest	86,491	16,232	150,028
NON-CASH TRANSACTIONS			
Issuance of common stock to Sportan shareholders	—	—	147,733
Issuance of common stock for accrued interest	78,091	—	603,604
Issuance of warrants to placement agent	—	37,453	37,453
Conversion of notes payable to common stock	1,302,000	—	7,709,980
Conversion of accrued liabilities to common stock	—	—	197,176
Conversion of accounts payable to note payable	—	—	93,364
Discount on convertible notes relating to:			
Warrants	—	349,947	3,659,737
Beneficial conversion feature	—	89,546	1,805,519
Stock attached to notes	—	—	1,287,440
Fair value of derivative instrument	—	(1,976,457)	4,680,220
Derivative reclassified to equity	—	587,609	587,609

See accompanying summary of accounting policies and notes to financial statements

OPEXA THERAPEUTICS, INC.
(a development stage company)

NOTES TO FINANCIAL STATEMENTS

NOTE 1—BUSINESS OVERVIEW AND SUMMARY OF ACCOUNTING POLICIES

Opexa Therapeutics, Inc. ("Opexa" or "the Company") was incorporated in Texas in March 1991 as a bio-pharmaceutical company engaged in developing autologous personalized cellular therapies. During the development stage, Opexa acquired the worldwide license to technology developed at Argonne National Laboratory, a U.S. Department of Energy Laboratory operated by the University of Chicago ("Argonne"). This is an exclusive license to a stem cell technology in which adult multi-potent stem cells are derived from monocytes obtained from the patient's own blood (the "License"). A patent application was filed in November 2003 with the United States Patent and Trade Office regarding the technology involved in the License. Effective August 6, 2009, the Company entered into an exclusive agreement with Novartis whereby Novartis acquired the Company's rights to the technology and has full responsibility for funding and carrying out all research, development and commercialization activities. The Company received an upfront cash payment of \$3 million at the time the agreement was entered into and subsequently received \$0.5 million as a technology transfer fee milestone. The Company remains eligible to receive an additional \$0.5 million technology transfer milestone fee in addition to potential clinical and commercial milestone and royalty payments from the sale of any products resulting from the use of the technology, and the Company retains an option on certain manufacturing rights.

In June 2004, PharmaFrontiers Corp. ("Pharma") was acquired by Sportan United Industries, Inc. ("Sportan") in a transaction accounted for as a reverse acquisition. Pharma's stockholders were issued 6,386,439 Sportan shares in exchange for 100 percent of the outstanding common shares of Pharma. Immediately following the transaction, Sportan changed its name to Pharma and 7,383,838 shares were outstanding.

On October 7, 2004, Opexa acquired all of the outstanding stock of Opexa Pharmaceuticals, Inc., an entity that has the exclusive worldwide license from Baylor College of Medicine to an individualized T-cell therapeutic vaccine, Tovaxin[®], for the treatment of multiple sclerosis (MS).

In June 2006, Opexa (i) changed its name to Opexa Therapeutics, Inc. from Pharma and (ii) effected a one-for-ten reverse common stock split (the "Split"). In January 2007, Opexa Therapeutics, Inc., the parent, merged with its wholly owned subsidiary, Opexa Pharmaceuticals, Inc. with Opexa Therapeutics, Inc. being the surviving company.

Development Stage Company. Opexa is considered to be in development stage and has had no commercial revenues to date.

Basis of Presentation. All references to number of shares and per share amounts reflect the Split as if it occurred on the first day of the first period presented. The financial statements include the accounts of Opexa and its wholly-owned subsidiary, Opexa Pharmaceuticals, Inc. through December 31, 2006. All inter-company accounts and transactions have been eliminated.

Reclassifications. Certain prior year amounts have been reclassified to conform with the current year presentation.

Use of Estimates in Financial Statement Preparation. The preparation of 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, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Cash Equivalents For purposes of the statements of cash flows, cash equivalents include all highly liquid investments with original maturities of three months or less. The primary objectives for the fixed income investment portfolio are liquidity and safety of principal. Investments are made with the objective of achieving the highest rate of return consistent with these two objectives. Opexa's investment policy limits investments to certain types of instruments issued by institutions primarily with investment grade credit ratings and places restrictions on maturities and concentration by type and issuer.

Long-lived Assets. Property and equipment are stated on the basis of historical cost less accumulated depreciation. Depreciation is provided using the straight-line method over the estimated useful lives of the assets. Major renewals and improvements are capitalized, while minor replacements, maintenance and repairs are charged to current operations. Impairment losses are recorded on long-lived assets used in operations when indicators of impairment are present and the undiscounted cash flows estimated to be generated by those assets are less than the assets' carrying amount.

Income Taxes. Income tax expense is based on reported earnings before income taxes. Deferred income taxes reflect the impact of temporary differences between assets and liabilities recognized for financial reporting purposes and such amounts recognized for tax purposes, and are measured by applying enacted tax rates in effect in years in which the differences are expected to reverse.

Stock-Based Compensation. Opexa accounts for share-based awards issued to employees and non-employees in accordance with FASB ASC 718. Accordingly, employee share-based payment compensation is measured at the grant date, based on the fair value of the award, and is recognized as an expense over the requisite service period (generally the vesting is over a 3-year period). Additionally, share-based awards to non-employees are expensed over the period in which the related services are rendered at their fair value.

Research and Development. Research and development expenses include salaries, related employee expenses, clinical trial expenses, research expenses, consulting fees, and laboratory costs. All costs for research and development activities are expensed as incurred. Opexa expenses the costs of licenses of patents and the prosecution of patents until the issuance of such patents and the commercialization of related products is reasonably assured. Research and development expense for the years ended December 31, 2010 and 2009 was \$2,584,734 and \$2,107,833, respectively.

Accounting for Derivative Instruments. In accordance with FASBASC 815, all derivatives are to be recorded on the balance sheets at fair value. Opexa's derivatives, if any, are separately valued and accounted for on the balance sheets. 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.

The pricing model Opexa used for determining fair values of its derivatives is the Black-Scholes option-pricing model. Valuations derived from this model are subject to ongoing internal and external verification and review. The model uses market-sourced inputs such as interest rates, exchange rates and option volatilities. Selection of these inputs involves management's judgment and may impact net income.

NOTE 2—CASH AND CASH EQUIVALENTS

Opexa considers all highly liquid investments with an original maturity of three months or less, when purchased, to be cash equivalents.

At December 31, 2010, Opexa invested approximately \$3.7 million in a money market account with an average market yield of 0.03%. Interest income of \$1,660 was recognized for the year ended December 31, 2010 in the statements of expenses.

At December 31, 2009, Opexa invested approximately \$8 million in a money market account with an average market yield of 0.01%. Interest income of \$1,764 was recognized for the year ended December 31, 2009 in the statements of expenses.

NOTE 3—PROPERTY AND EQUIPMENT

Property and equipment consisted of the following at December 31, 2010 and 2009:

Description	Life	2010	2009
Computer equipment	3 years	\$ 117,789	\$ 123,155
Office furniture and equipment	5-7 years	246,117	317,657
Software	3 years	80,480	87,929
Laboratory equipment	7 years	990,961	984,809
Leasehold improvements	10 years	465,601	465,601
Manufacturing equipment	3 years	24,568	—
Subtotal		1,925,516	1,979,151
Less: accumulated depreciation		(1,109,558)	(1,029,241)
Property and equipment, net		\$ 815,958	\$ 949,910

Property and equipment is carried at cost less accumulated depreciation. Depreciation is calculated by the straight-line method over the estimated useful life of three to ten years, depending upon the type of equipment, except for leasehold improvements which are amortized using the straight-line method over the remaining lease term or the life of the asset, whichever is shorter. The cost of repairs and maintenance is charged as an expense as incurred. Depreciation expense totaled \$168,843 and \$214,851 for the years ended December 31, 2010 and 2009, respectively.

NOTE 4—INCOME TAXES

Opexa uses the liability method, where deferred tax assets and liabilities are determined based on the expected future tax consequences of temporary differences between the carrying amounts of assets and liabilities for financial and income tax reporting purposes.

At December 31, 2010, for federal income tax and alternative minimum tax reporting purposes, Opexa had approximately \$56 million of unused net operating losses available for carryforward to future years. At December 31, 2010, Opexa's deferred tax asset resulting from its cumulative NOLs amounted to \$19,013,891 which is covered by a full valuation allowance due to uncertainty of Opexa's ability to generate future taxable income necessary to realize the related deferred tax asset.

During 2010, Opexa received a direct payment of \$244,479 from the Internal Revenue Service in payment of their application for the Qualifying Therapeutic Discovery Grant. Opexa accounted for this payment as a reduction of research and development expenses for the year ended December 31, 2010.

NOTE 5—LOAN PAYABLE

Loan payable consists of an equipment line of up to \$250,000 with Wells Fargo of which \$35,607 and \$102,932 were outstanding as of December 31, 2010 and 2009, respectively. This loan has an interest rate of 7.61% per annum, matures in June 2011 and is secured by Opexa's furniture and equipment purchased with the loan proceeds. For the years ended December 31, 2010 and 2009, Opexa recognized interest expense of \$5,522 and \$10,578, respectively, associated with its equipment line.

NOTE 6—CONVERTIBLE PROMISSORY NOTES

On April 14, 2009 and May 14, 2009, Opexa closed a private offering consisting of secured convertible notes (the "Notes") for gross proceeds of approximately \$1.3 million. The Notes matured in two years from the date of issue and accrued interest at a 10% rate, compounded annually. The interest was payable at maturity in either cash or common stock at Opexa's option. The Notes were secured by substantially all of Opexa's assets and were convertible into common stock, at the option of the holders, at a price of \$0.50 per share. Additionally, subject to the satisfaction of certain conditions, the Notes were mandatorily convertible into common stock, at Opexa's option, during their term also at \$0.50 per share. The required conditions were: (1) Opexa enters into an agreement that will fund a Phase IIb or Phase III clinical trial for the further development of Opexa's product known as Tovaxin®, (2) Opexa's common stock trades at a price greater than or equal to \$1.00 per share for 20 consecutive trading days, and (3) Opexa has an effective registration statement on file with the Securities and Exchange Commission for the resale of the shares of common stock issuable upon conversion of the Notes.

In connection with the issuance of the Notes, warrants to purchase a total of 1,302,000 shares of common stock were issued to the investors. See Note 9 "Broker and Investor Warrants" for details on the warrants. The Notes were evaluated for a beneficial conversion feature under FASB ASC 470 and determined to have a beneficial conversion feature totaling \$89,546. Opexa recorded a debt discount of \$439,493 related to the warrants granted to the investors. Pursuant to FASB ASC 470, the discount on the Notes is amortized over the period between the issuance date and the maturity of the Notes under the effective interest method. The amortized discount for the year ended December 31, 2009 was \$124,744.

Opexa analyzed the Notes and the warrants for derivative accounting consideration under FASB ASC 470. Opexa determined the embedded conversion option in the Notes and the warrants met the criteria for classification in stockholders equity under FASB ASC 470. Therefore, derivative accounting was not applicable for these Notes payable or their associated warrants.

The total of the fees associated with the financing (broker commissions and legal fees) were \$158,468. These fees were to be amortized over the life of the Notes using the effective interest method. The amortized offering costs for the year ended December 31, 2009 were \$50,351. Interest on the Notes in the amount of \$86,800 had been accrued as of December 31, 2009.

Upon notice of Opexa's intent to prepay the then outstanding \$1.25 million aggregate principal balance of the Notes in full on June 23, 2010, the noteholders elected to convert the outstanding principal balance of the Notes into shares of Opexa common stock at the conversion price of \$0.50 pursuant to the terms of the Notes. The conversion of all outstanding Notes was effected June 23, 2010, with one Note for \$50,000 in principal amount having been previously converted in May 2010 by the holder thereof into 100,000 shares of Opexa common stock pursuant to the terms thereof.

In settlement of accrued and unpaid interest on the Notes in the approximate amount of \$156,000, the noteholders accepted Opexa's offer to pay 50% of the accrued interest to June 23, 2010 in cash and 50% of the accrued interest to June 23, 2010 in shares of common stock calculated at the same \$0.50 conversion price. As a condition to accepting Opexa's offer, each noteholder agreed to immediately terminate and release the security interest associated with the Notes as well as Opexa's obligations under the Unit Purchase Agreement, Registration Rights Agreement and Security Agreement that were executed in connection with the original issuance of the Notes.

The conversion of the Notes and payment of accrued interest resulted in the issuance of an aggregate of 2,760,181 shares of common stock and an aggregate cash payment in the amount of \$78,115. As debt was extinguished in exchange for equity pursuant to a preexisting contractual obligation recognized in the financial statements, management has concluded that no gain or loss should be recognized upon the conversion. As of the date of the conversion, the unamortized discount related to the beneficial conversion feature and the warrants issued with the Notes amounting to \$211,590 as well as the unamortized deferred financing costs of \$70,191 were charged to interest expense for the year ended December 31, 2010.

NOTE 7—COMMITMENTS AND CONTINGENCIES

In October 2005, Opexa entered into a ten-year lease for its office and research facilities. The facility including the property is leased for a term of ten years with two options for an additional five years each at the then prevailing market rate. Future minimum lease payments under the non-cancellable operating lease are \$147,545 for 2011, \$150,133 for 2012 and a total of \$434,221 for years 2013 to 2015. Rent expense was approximately \$136,000 for each of the years ended December 31, 2010 and 2009.

NOTE 8—EQUITY

During 2003, equity related transactions were as follows:

- 525,000 shares of common stock were sold for \$1,000.
- 170,625 shares were reacquired for \$325 and canceled.
- Additional contributions to capital of \$56,360 resulted from the discounted value to notes payable due to warrants and beneficial conversion features attached to convertible notes was issued in 2003.

During 2004, equity related transactions were as follows:

- 2,250 shares of common stock were sold for \$9,000.
- 206,500 shares of common stock valued at their then fair value of \$849,000 were issued to employees and consultants for their services.
- 24,269 shares of common stock valued at their then fair value of \$427,075 were issued to the University of Chicago per the terms of a license agreement. See Note 11 for details.
- 99,740 shares of common stock were issued for net liabilities of \$147,733 pursuant to the 2004 reorganization.
- 250,000 shares of common stock valued at their then fair value of \$23,750,000 were issued to Opexa Pharmaceuticals, Inc. stockholders.
- 16,100 shares of common stock with a relative fair value of \$288,366 were issued to noteholders as their additional shares for their subscription investment.
- 60,750 shares of common stock were issued to noteholders for the conversion of \$248,370 of principal and interest from convertible notes.
- 8,000 shares of common stock were cancelled pursuant to the terms of an employment separation agreement.
- Additional contributions to capital of \$2,704,351 resulted from the discounted value to notes payable from warrants and beneficial conversion features attached to convertible notes.
- Employee stock option compensation expense was \$123,333 for 2004.

During 2005, equity related transactions were as follows:

- 389,451 shares of common stock with warrants to purchase 1,070,993 shares were sold for \$5,841,769. The relative fair value of the common stock was \$1,103,714 and the relative fair value of the warrants was \$4,738,055. Offering costs of \$495,552 related to shares issued were charged to additional paid in capital.
- 45,168 shares of common stock with a relative fair value of \$999,074 were issued to noteholders as their additional shares for their subscription investment.
- 565,858 shares of common stock were issued to noteholders for the conversion of \$6,124,859 of principal and \$525,513 interest from convertible notes.
- 2,300 shares of common stock valued at their fair value of \$161,000 were issued to noteholders for the conversion of \$51,930 of principal and interest from the notes.
- 29,194 shares of common stock were issued to the University of Chicago per the terms of a license agreement. These shares were recorded at \$1,868,384. See Note 11 for details.

- 24,000 shares of common stock valued at their fair value of \$1,012,400 were issued to consultants for their services.
- Additional contributions to capital of \$2,265,052 relating to the discounted value to notes payable from warrants, beneficial conversion features attached to convertible notes.
- Employee stock option compensation expense was \$2,487,741 for 2005.
- Non-employee stock option compensation expense was \$2,373,888 for 2005.
- Transition of warrants from equity instruments to liability instruments in the amount of \$10,658,496 was recorded.

During 2006, equity related transactions were as follows:

- In March 2006, 34,829 shares of common stock were issued to settle an outstanding accounts payable in the amount of \$180,000.
- In April 2006, Opexa sold 4,600,000 shares of its common stock and warrants to purchase 2,300,000 shares of Opexa's common stock for \$23 million. Opexa paid \$1,846,481 for the commissions and fees related to this offering and granted to its brokers warrants to purchase 213,720 shares of common stock at an exercise price of \$5.00 per share. These warrants are not callable and have a cashless exercise option.
- Employee stock option compensation expense was \$2,749,617 for 2006.
- Non-employee stock option compensation expense was \$1,568,966 for 2006.

During 2007, equity related transactions were as follows:

- Employee stock option compensation expense was \$1,876,103 for 2007.
- Non-employee stock option compensation expense was \$845,275 for 2007.

During 2008, equity related transactions were as follows:

- In February 2008, Opexa sold 3,500,000 shares of common stock and 4,025,000 Series E warrants in a public offering for approximately \$7.6 million. Opexa paid approximately \$1.2 million for the underwriter discounts, commissions and other expenses related to this offering and granted to the underwriter warrants to purchase 350,000 shares of common stock at a price of \$2.40 per share and an option to acquire 350,000 Series E warrants at a price of \$0.18 per Series E warrant.
- In August, Opexa sold 2,003,874 shares of common stock and Series F warrants to purchase 2,003,874 shares of common stock in a private offering to certain institutional and accredited investors for approximately \$3.0 million. Opexa paid approximately \$100,000 in expenses related to this offering.
- 45,200 shares of restricted common stock valued at \$48,965 were issued to Board members as compensation for their Board services.
- Employee stock option compensation expense was \$1,467,364 for 2008.
- Non-employee stock option compensation expense was \$434,207 for 2008.

During 2009, equity related transactions were as follows:

- In December 2009, Opexa sold 2,550,000 shares of its common stock and warrants to purchase 1,275,000 shares of Opexa's common stock for \$5.1 million. Opexa paid \$310,500 for the commissions related to this offering and granted broker warrants to purchase 89,250 shares of common stock at an exercise price of \$2.50 per share. These warrants are not callable and have a cashless exercise option.
- 60,400 shares of common stock were issued in connection with the exercise of stock options.
- 48,200 shares of common stock were issued in connection with the exercise of Series E warrants.
- 472,968 shares of common stock were issued in connection with the exercise of Series F warrants
- 98,796 shares of common stock were issued in connection with the exercise of broker warrants.

On November 11, 2009, the Company's stockholders approved an amendment to the Articles of Incorporation reducing the par value of the common stock from \$.50 to \$.01 per share. As a result of the reduction in par value, the "Common stock" account was reduced by \$6,329,888 and the "Additional paid-in capital" account was increased by the same amount in the accompanying Statements of Changes in Stockholders' Equity.

During 2010, equity related transactions were as follows:

- In June 2010, 2,760,181 shares of common stock were issued to noteholders for the conversion of \$1,302,000 of principal and \$78,091 of accrued interest from the 10% Convertible Promissory Notes.
- 141,520 shares of common stock were issued in connection with the exercise of stock options.
- 34,001 shares of common stock were issued in connection with the cashless exercise of broker warrants.
- 55,000 shares of common stock valued at their fair value of \$64,350 were issued to a consultant in exchange for services.

NOTE 9—OPTIONS AND WARRANTS

On September 2, 2010, the Board adopted the Opexa Therapeutics, Inc. 2010 Stock Incentive Plan ("the 2010 Plan") for the granting of equity incentive awards to employees, directors and consultants of Opexa. The 2010 Plan was approved by the Company's stockholders on October 19, 2010. The 2010 Plan is the successor to and continuation of Opexa's June 2004 Compensatory Stock Option Plan (the "2004 Plan"). The 2004 Plan reserved a maximum of 2,300,000 shares of common stock for issuance pursuant to incentive stock options and nonqualified stock options granted to employees, directors and consultants. Awards were made as either incentive stock options or nonqualified stock options, with the Board having discretion to determine the number, term, exercise price and vesting of grants made under the 2004 Plan. All outstanding equity awards granted under the 2004 Plan continue to be subject to the terms and conditions as set forth in the agreements evidencing such stock awards and the terms of the 2004 Plan, but no additional awards will be granted under the 2004 Plan subsequent to approval of the 2010 Plan. Under the 2010 Plan, the total number of shares of common stock reserved for issuance consists of 2,500,000 shares plus the number of shares subject to stock options outstanding under the 2004 Plan that are forfeited or terminate prior to exercise and would otherwise be returned to the share reserves under the 2004 Plan and any reserved shares not issued or subject to outstanding grants, up to a maximum of 2,066,800 shares. The 2010 Plan provides for the grant of either incentive stock options or nonqualified stock options, as well as restricted stock, stock appreciation rights, restricted stock units and performance awards that may be settled in cash, stock or other property. The Board of Directors or Compensation Committee, as applicable, administers the 2010 Plan and has discretion to determine the recipients, the number and types of stock awards to be granted and the terms and conditions of the stock awards, including the period of their exercisability and vesting. Subject to a limitation on repricing without stockholder approval, the Board or Compensation Committee, as applicable, may also determine the exercise price of options granted under the 2010 Plan.

Employee Options:

During 2004, options to purchase 96,500 shares were granted to employees at exercise prices ranging from \$30.00 to \$50.00. These options have terms of five years and vest from one to three years. Fair value of \$5,623,186 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2004 include (1) discount rate of 2%, (2) option life of five years, (3) expected volatility of 75.1% and (4) zero expected dividends.

During 2005, options to purchase 63,050 shares were granted to employees at an exercise price of \$7.00. These options have terms of ten years and vest in four years. Fair value of \$261,879 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2005 include (1) discount rate of 2%, (2) option life of ten years, (3) expected volatility of 175.4% and (4) zero expected dividends.

During 2005, options to purchase 4,167 shares were forfeited and cancelled.

During 2006, options to purchase 389,160 shares of common stock were granted by Opexa to its employees at exercise prices ranging from \$5.00 to \$9.40. These options have terms from five to ten years and vest from one to three years. Fair value of \$3,126,168 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2006 include (1) discount rate range of 4.72% to 5.22%, (2) option life of five to ten years, (3) expected volatility range of 401.3% to 429.9% and (4) zero expected dividends.

During 2006, options to purchase 14,133 shares were forfeited.

Opexa recorded \$2,749,617 stock-based compensation expense to management and employees during 2006.

During 2007, options to purchase 224,400 shares of common stock were granted by Opexa to its employees at exercise prices ranging from \$3.96 to \$5.47. These options have terms of ten years and vest annually over a three year period. Fair value of \$958,011 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2007 include (1) discount rate range of 4.22% to 5.07%, (2) option life is a term with the expected term of five to six years, (3) expected volatility range of 95.4% to 103.9% and (4) zero expected dividends.

During 2007, options to purchase 17,345 shares were forfeited.

Opexa recorded \$1,876,103 stock-based compensation expense to management and employees during 2007.

During 2008, options to purchase 469,100 shares of common stock were granted by Opexa to its employees at exercise prices ranging from \$1.09 to \$1.17. These options have terms of ten years and have vesting ranges from 8 months to three years. Fair value of \$433,164 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2008 include (1) discount rate range of 3.15% to 3.73%, (2) option life is a term with the expected term of five to six years, (3) expected volatility of 115.3% and (4) zero expected dividends.

During 2008, options to purchase 104,578 shares were forfeited.

Opexa recorded \$1,467,364 stock-based compensation expense to management and employees during 2008.

During 2009, options to purchase 535,959 shares of common stock were granted by Opexa to its employees at exercise prices ranging from \$0.22 to \$2.05. These options have terms of ten years and have vesting ranges from 6 months to three years. Fair value of \$512,919 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2009 include (1) discount rate range of 1.47% to 2.01%, (2) option life is a term with the expected term of five to six years, (3) expected volatility of 192.4%—207.7% and (4) zero expected dividends.

During 2009, options to purchase 228,786 shares were forfeited.

Opexa recorded \$402,803 stock-based compensation expense to management and employees during 2009. Unamortized stock-based compensation expense as of December 31, 2009 amounted to \$586,467.

During 2010, options to purchase 60,000 shares of common stock were granted by Opexa to its employees at exercise prices ranging from \$1.53 to \$2.25. These options have a term of ten years and vest over three years. Fair value of \$112,313 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2010 include (1) discount rate range of 1.93% to 2.78%, (2) option life is an expected term of six to eight years, (3) expected volatility of 206.0%—212.1% and (4) zero expected dividends.

During 2010, options to purchase 352,578 shares were forfeited and cancelled.

Opexa recorded \$289,413 stock-based compensation expense to management and employees during 2010. Unamortized stock-based compensation expense as of December 31, 2010 amounted to \$399,638.

Non-Employee Options:

During 2004, options to purchase 20,000 shares were granted to consultants at exercise prices ranging from \$30.00 to \$50.00. These options have terms of five years and vest from one to three years. Fair value of \$1,011,770 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2004 include (1) discount rate of 2% (2) option life of five years, (3) expected volatility of 75.1% and (4) zero expected dividends.

During 2005, options to purchase 71,060 shares were granted to consultants. Using the Black-Scholes option-pricing model fair value for 2005 was \$1,552,936. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2005 include (1) discount rate of 2%, (2) option life of five years, (3) expected volatility of 175.4% and (4) zero expected dividends.

During 2005, options to purchase 10,000 shares were forfeited and cancelled.

During 2006, options to purchase 156,500 shares of common stock were granted by Opexa to its consultants, directors and exiting directors at exercise prices ranging from \$5.20 to \$9.80. These warrants have a term of ten years and vest from one to three years. Fair value of \$1,496,375 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2006 include (1) discount rate range of 4.7%—5.2%, (2) option life of ten years, (3) expected volatility range of 401.3% to 429.9% and (4) zero expected dividends.

During 2006, options to purchase 5,000 shares expired.

Opexa recorded \$1,568,966 stock-based compensation expense to consultants, directors and exiting directors during 2006.

During 2007, options to purchase 69,500 shares of common stock were granted by Opexa to its consultants and directors at exercise prices ranging from \$3.95 to \$5.47. These options have a term of ten years, and have vesting dates that vary from either full or partial vesting at date of grant to full vesting at the first and second year anniversary of the date of grant. Fair value of \$268,675 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2007 include (1) discount rate range of 4.20% to 5.07%, (2) option life is a term with the expected term of five and three-quarters years, (3) expected volatility range of 95.4% to 95.9% and (4) zero expected dividends.

Opexa recorded \$845,275 stock-based compensation expense to consultants and directors during 2007.

During 2008, options to purchase 171,300 shares of common stock were granted by Opexa to its consultants and directors at exercise prices ranging from \$0.88 to \$1.55. These options have a term of ten years, and have vesting dates that vary from either full or partial vesting at date of grant to full vesting at the first year anniversary of the date of grant. Fair value of \$179,340 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2008 include (1) discount rate range of 3.07% to 3.44%, (2) option life is a term with the expected term of five and one-half years, (3) expected volatility range of 115.3% to 116.5% and (4) zero expected dividends.

During 2008, options to purchase 22,000 shares were forfeited.

Opexa recorded \$434,207 stock-based compensation expense to consultants and directors during 2008.

During 2009, options to purchase 238,380 shares of common stock were granted by Opexa to its consultants and directors at exercise prices ranging from \$0.47 to \$2.10. These options have a term of ten years, and have vesting dates that vary from either full or partial vesting at date of grant to full vesting at the first year anniversary of the date of grant. Fair value of \$215,275 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2009 include (1) discount rate range of 1.87% to 2.46%, (2) option life is a term with the expected term of 5 to five and one-half years, (3) expected volatility range of 192.9% to 208.9% and (4) zero expected dividends.

During 2009, options to purchase 113,750 shares were forfeited.

Opexa recorded \$247,446 stock-based compensation expense to consultants and directors during 2009. Unamortized stock-based compensation expense as of December 31, 2009 amounted to \$33,715.

During 2010, options to purchase 92,556 shares of common stock were granted by Opexa to its consultants and directors at exercise prices ranging from \$1.53 to \$2.25. These options have terms of two to ten years, and have vesting dates that vary from either full or partial vesting at date of grant to full vesting within one to two years of the date of grant. Fair value of \$200,209 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2010 include (1) discount rate range of 0.97% to 2.43%, (2) option life is an expected term of two to five and one-quarter years, (3) expected volatility of 206.0%—271.6% and (4) zero expected dividends.

During 2010, options to purchase 40,136 shares were forfeited.

Opexa recorded \$219,138 stock-based compensation expense to consultants and directors during 2010. Unamortized stock-based compensation expense as of December 31, 2010 amounted to \$14,788.

Broker and Investor Warrants:

During 2003, warrants to purchase 15,000 shares were granted to investors related to the convertible notes.

During 2004, warrants to purchase 142,800 shares were granted to investors related to the convertible notes.

During 2005, warrants to purchase 46,084 shares of common stock were issued to several brokerage firms as the offering costs and commissions for Opexa's financing activities at an exercise price of \$1.50. These warrants have a fair value of \$2,197,162 and vest immediately.

During 2005, warrants to purchase 2,386,984 shares were granted to investors related to the convertible notes.

During 2005 warrants to purchase 254,362 shares were forfeited.

In April 2006, warrants to purchase 213,720 shares of common stock were granted by Opexa to the brokers in connection with the \$23 million equity financing, at an exercise price of \$5.00. These warrants have a term of three years and vest immediately. Fair value of \$1,077,778 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for warrants issued during the year ended December 31, 2006 include (1) discount rate of 5.22%, (2) warrant life of three years, (3) expected volatility of 429.9% and (4) zero expected dividends.

During 2006, warrants to purchase 2,765,043 shares were granted to investors related to the April 2006 financing. These warrants have a term of five years and vest immediately. Fair value of \$11,729,982 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for warrants issued during the year ended December 31, 2006 include (1) discount rate of 4.86%, (2) warrant life of five years, (3) expected volatility of 429.9% and (4) zero expected dividends.

During 2006, warrants to purchase 1,644,908 shares were forfeited.

During 2007, there were no warrants granted to investors.

During 2008, Series E warrants to purchase 4,025,000 shares of common stock were issued by Opexa to the investors and underwriters in connection with the February 2008 public offering, at an exercise price of \$2.00. These warrants vest immediately and have a fair value of \$603,750. During 2008, Opexa issued warrants to the underwriter of the February 2008 public offering to purchase 350,000 shares of common stock at a price of \$2.40 per share and an option to acquire 350,000 Series E warrants at a price of \$0.18 per Series E warrant. These warrants are classified as equity and are immediately exercisable. Fair value of \$350,061 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for options issued during the year ended December 31, 2008 include (1) discount rate of 2.93%, (2) warrant life is a term with the expected term of five years, (3) expected volatility of 97.7% and (4) zero expected dividends.

During August 2008, in connection with a private financing, Opexa issued warrants to purchase 2,003,874 shares of its common stock to certain institutional and accredited investors. The warrants expire four years from issuance, are first exercisable after six months of the closing of the financing and are exercisable at \$1.78 per share. These warrants are classified as equity. Fair value of \$1,976,457 was recorded using the Black-Scholes option-pricing model. Variables used in the Black-Scholes option-pricing model for warrants issued during the year ended December 31, 2008 include (1) discount rate of 3.27%, (2) warrant life is a term with the expected term of four years, (3) expected volatility of 116.5% and (4) zero expected dividends.

In connection with the April and May 2009 private offering of convertible notes, investors were issued four-year warrants to purchase up to an aggregate of 1,302,000 shares of common stock, at an exercise price of \$0.75 per share. The estimated fair value of the investor warrants was \$478,577 and was calculated using the Black-Scholes valuation model. The following assumptions were used: (1) no expected dividends, (2) risk free interest rate of 0.86%—0.87%, (3) expected volatility range of 195%—197% and (4) expected life of four years.

As additional compensation, Opexa issued warrants to the broker to purchase 112,140 shares of common stock also at a price of \$0.75 per share. The estimated fair value of the broker warrants was \$37,453 and was calculated using the Black-Scholes valuation model. The following assumptions were used: (1) no expected dividends, (2) risk free interest rate of 0.87%, (3) expected volatility of 195% and (4) expected life of four years.

In connection with the December 2009 registered direct offering, institutional investors were issued Series A warrants to purchase 892,500 shares of common stock and Series B warrants to purchase 382,500 shares of common stock. The Series A and Series B warrants are exercisable at \$2.55 per share and were first exercisable on June 15, 2010. The Series A Warrants expire on June 15, 2015 and the Series B warrants expire on June 15, 2011.

As additional compensation, Opexa issued warrants to the placement agent to purchase 89,250 shares of common stock at \$2.50 per share that were first exercisable on June 15, 2010 and expire on November 23, 2014.

During 2010, warrants to purchase 1,156,633 shares were forfeited.

During 2010, options to acquire Series E warrants of 7,867 shares at a price of \$0.18 per Series E warrant were exercised.

At December 31, 2010, the aggregate intrinsic value of the outstanding options and warrants was \$588,504 and \$1,330,134, respectively.

Summary information regarding options and warrants is as follows:

	<u>Options</u>	<u>Weighted Average Exercise Price</u>	<u>Warrants</u>	<u>Weighted Average Exercise Price</u>
Outstanding at December 31, 2006	762,970	\$ 11.48	3,670,361	\$ 19.51
Year ended December 31, 2007:				
Granted	293,900	5.28	—	—
Forfeited and canceled	<u>(17,345)</u>	<u>7.74</u>	<u>—</u>	<u>—</u>
Outstanding at December 31, 2007	1,039,525	\$ 9.79	3,670,361	\$ 19.51
Year ended December 31, 2008:				
Granted	640,400	1.10	6,728,874	1.96
Forfeited and canceled	<u>(126,578)</u>	<u>6.53</u>	<u>—</u>	<u>—</u>
Outstanding at December 31, 2008	1,553,347	\$ 6.47	10,399,235	\$ 8.15
Year ended December 31, 2009:				
Granted	773,339	0.96	3,204,620	1.67
Exercised	(60,774)	1.05	(718,764)	1.66
Forfeited and canceled	<u>(342,536)</u>	<u>10.56</u>	<u>(208,330)</u>	<u>5.00</u>
Outstanding at December 31, 2009	1,923,376	\$ 3.70	12,676,761	\$ 6.93
Year ended December 31, 2010:				
Granted	152,556	2.08	7,867	2.00
Exercised	(141,146)	0.77	(68,411)	2.10
Forfeited and canceled	<u>(392,714)</u>	<u>9.11</u>	<u>(1,156,633)</u>	<u>29.40</u>
Outstanding at December 31, 2010	<u>1,542,072</u>	\$ 2.15	<u>11,459,584</u>	\$ 2.75

Summary of options outstanding and exercisable as of December 31, 2010 is as follows:

Range of Exercise Prices	Weighted Average Remaining Contractual Life (years)	Number of Options Outstanding	Number of Options Exercisable
\$ 0.22 to 4.99	6.50	1,236,132	982,966
5.00 to 9.80	0.87	305,940	305,940
\$ 0.22 to 9.80	7.37	1,542,072	1,288,906

Summary of warrants outstanding and exercisable as of December 31, 2010 is as follows:

Range of Exercise Prices	Weighted Average Remaining Contractual Life (years)	Number of Warrants Outstanding	Number of Warrants Exercisable
\$ 0.18 to 4.99	1.78	9,154,194	9,154,194
5.00 to 6.50	0.06	2,305,390	2,305,390
\$ 0.18 to 6.50	1.84	11,459,584	11,459,584

NOTE 10—DERIVATIVE INSTRUMENTS

FASB ASC 815, "Accounting for Derivatives and Hedging Activities" ("FASB ASC 815") specifies that a contract that would otherwise meet the definition of a derivative, but is both (a) indexed to its own stock and (b) classified in stockholders' equity in the statement of financial position would not be considered a derivative financial instrument. FASB ASC 815 provides a new two-step model to be applied in determining whether a financial instrument or an embedded feature is indexed to an issuer's own stock, including evaluating the instrument's contingent exercise and settlement provisions, and thus able to qualify for the FASB ASC 815-10 scope exception. It also clarifies the impact of foreign-currency-denominated strike prices and market-based employee stock option valuation instruments on the evaluation. Initially, Opexa evaluated all of its financial instruments and determined that the Series F warrants associated with the August 2008 financing qualified for treatment under FASB ASC 815 and adjusted its financial statements to reflect the adoption of the FASB ASC 815 as of January 1, 2009. The fair value of these warrants were reclassified as of January 1, 2009 in the amount of \$220,835 from additional paid in capital to derivative liability and the cumulative effect of the change in accounting principle in the amount of \$1,755,622 was recognized as an adjustment to the opening balance of retained earnings. The impact of FASB ASC 815 for the year to date period ended June 1, 2009 resulted in an increase in the derivative liability of \$366,774 with a corresponding loss on derivative instruments. On June 1, 2009, it was determined that the floor for resetting the exercise price was met and that any further adjustments to the exercise price of the Series F warrants would require a vote by the shareholders of the company. Therefore, the Series F warrants were considered indexed to the company's stock and qualified for the scope exception under FASB ASC 815-10 allowing for a transfer from liability classification to equity classification. Consequently, the remaining derivative liability of \$587,609 at June 1, 2009 was reclassified to additional paid in capital.

NOTE 11—LICENSES AND GAIN ON EXTINGUISHMENT OF DEBT

University of Chicago License Agreement

In 2004, Opexa entered into an agreement with the University of Chicago ("University") for the worldwide license to technology developed at Argonne National Laboratory, a U.S. Department of Energy Laboratory operated by the University. The license was later amended granting Opexa an exclusive, non-transferable worldwide license to the University's stem cell technology. In consideration for the license and amendment, Opexa paid the University a total of \$232,742 and issued the University 53,462 shares of common stock valued at \$2,295,461. Opexa also agreed to pay the University \$1.5 million and to issue the University 21,623 shares of Opexa common stock. In April 2007, the \$1.5 million cash payment obligation was extended until July 31, 2007 and the obligation to issue shares of Opexa's common stock was extended until July 31, 2007, with \$112,440 accrued as of June 30, 2007.

In July 2007, Opexa entered into a second amended and restated license agreement with the University that eliminated the obligations under the prior agreement for the payment of \$1.5 million due July 31, 2007 and the obligation to issue 21,623 shares of Opexa common stock. These obligations were recorded as an intangible asset, with the liabilities recorded as a notes payable—current portion of \$1.5 million and a stock payable of \$112,440. As a result of the amendment and restatement of the license agreement with the University, \$1,612,440 was reported as a gain on extinguishment of liability. Opexa applied the accounting guidance related to transfers and servicing of financial assets and extinguishments of liabilities as well as the guidance on debtor's accounting for a modification or exchange of debt instruments. Effective August 6, 2009, the University of Chicago license agreement was assigned to Novartis as part of an agreement as further described below.

Stem Cell Technology Agreement

Effective August 6, 2009, Opexa entered into an exclusive agreement with Novartis for the further development of its stem cell technology. This technology, which has generated preliminary data, was in early preclinical development. Under the terms of the agreement, Novartis acquired the stem cell technology from Opexa and Novartis will have full responsibility for funding and carrying out all research, development and commercialization activities. Opexa received an upfront cash payment of \$3 million at the time the agreement was entered into and subsequently received \$0.5 million as a technology transfer milestone fee. Opexa remains eligible to receive an additional \$0.5 million technology transfer milestone fee in addition to potential clinical and commercial milestone and royalty payments from the sale of any products resulting from the use of the technology, and Opexa retains an option on certain manufacturing rights. The \$3 million was recorded as a gain on sale of technology and the \$0.5 million technology transfer fee was recorded as other income for the year end December 31, 2009.

NOTE 12—SUBSEQUENT EVENTS

Subsequent to December 31, 2010, Opexa granted its management and employees options to purchase an aggregate of 175,000 shares of common stock at an exercise price of \$1.56.

In January 2011, Opexa sold an aggregate of 384,759 shares of common stock under the Continuous Offering Program Agreement dated May 14, 2010 (the "ATM Agreement") for net proceeds of \$1,066,286. Under the ATM Agreement, prior to its termination as noted below, Opexa may sell an aggregate of up to 2,000,000 shares of common stock from time to time through the placement agent. The placement agent may sell the common stock by any method permitted by law, including sales deemed to be an "at the market" offering defined in Rule 415 of the Securities Act of 1933. Sales may be made directly on the NASDAQ Stock Market or to or through a market maker. The placement agent may also sell the common stock in privately negotiated transactions, subject to Opexa's prior approval. Opexa will pay the placement agent a commission equal to 1% of the gross proceeds from the sale of common stock by it as agent under the ATM Agreement. The ATM Agreement may be terminated by either party at any time (without affecting any pending sale by the agent on behalf of Opexa). Opexa paid compensation and fees totaling \$10,826 to the placement agent with respect to the shares sold. The ATM Agreement was subsequently terminated by Opexa on February 7, 2011.

In February 2011, Opexa sold an aggregate of 4,146,500 units in a public offering, with each unit consisting of one share of common stock and a warrant to purchase four-tenths (0.40) of a share of common stock, at a price to the public of \$2.05 per unit, for gross proceeds of \$8,500,325. The shares of common stock and warrants are immediately separable and were issued separately such that no units were issued. The warrants are exercisable immediately upon issuance, having a five-year term and an exercise price of \$2.61 per share. The net proceeds to Opexa from this offering were approximately \$7,622,800, after deducting underwriting discounts and commissions and other estimated offering expenses. The offering closed on February 11, 2011.

EXHIBIT INDEX

Exhibit No.	Description
2.1	Stock Purchase Agreement by and among Sportan United Industries, Inc., Jason G. Otteson, PharmaFrontiers Corp., Warren C. Lau and other PharmaFrontiers stockholders, dated May 5, 2004 (incorporated by reference to Exhibit 2.1 to the Company's Current Report on Form 8-K filed June 4, 2004, File No. 000-25513).
2.2	Agreement and Plan of Reorganization by and among PharmaFrontiers Corp., Pharma Acquisition Corp and Opexa Pharmaceuticals, Inc. dated October 7, 2004 (incorporated by reference to Exhibit 2.1 to the Company's Current Report on 8-K filed October 8, 2004, File No. 000-25513).
3.1	Articles of Amendment and Restatement of the Articles of Incorporation (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on June 19, 2006).
3.2	Articles of Amendment to the Amended and Restated Articles of Incorporation (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed on November 13, 2009).
3.3*	Amended and Restated By-laws, as amended.
4.1	Form of Common Stock Certificate (incorporated by reference to Exhibit 4.7 to the Company's Registration Statement on Form S-3 filed on November 13, 2009, File No. 333-163108).
4.2	Purchase Agreement dated April 11, 2006 by and among the Company and the Investors named therein for April 2006 common stock and warrant offering (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.3	Form of Warrant issued in connection with April 2006 offering (incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.4	Registration Rights Agreement dated April 11, 2006 by and among the Company and the Investors named therein for April 2006 offering common stock and warrants (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed April 18, 2006).
4.5	Form of Series E Warrant (incorporated by reference to Exhibit 4.2 to the Company's Registration Statement on Form SB-2 (Amendment No. 1) filed December 20, 2007, File No. 333-147167).
4.6	Warrant Agent Agreement by and between the Company and Continental Stock Transfer & Trust Company dated February 13, 2008 for the Series E Warrants (incorporated by reference to Exhibit 4.3 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.7	Form of Underwriters' Warrant Agreement by and between the Company and each underwriter party thereto for the Series E Warrants (incorporated by reference to Exhibit 4.4 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.8	Form of Underwriters' Warrant to Acquire Warrants Agreement by and between the Company and each underwriter party thereto for the Series E Warrants (incorporated by reference to Exhibit 4.5 to the Company's Current Report on Form 8-K filed February 14, 2008).
4.9	Unit Purchase Agreement dated August 8, 2008 by and among the Company and the Investors named therein in connection with Unit offering of common stock and Series F Warrants (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.10	Form of Series F Warrant issued in connection with August 8, 2008 financing (incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.11	Registration Rights Agreement dated August 8, 2008 between the Company and the Investors named therein in connection with common stock and Series F Warrants (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed August 12, 2008).
4.12	Unit Purchase Agreement dated April 14, 2009 by and among the Company and the Investors party thereto for the 10% Convertible Notes and Series G Warrants (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed April 16, 2009).
4.13	Form of Series G Warrant issued by the Company on April 14, 2009 (incorporated by reference to Exhibit 10.4 of the Company's Current Report on Form 8-K filed April 16, 2009).

Exhibit No.	Description
4.14	Placement Agent Agreement dated December 9, 2009 by and between the Company and Rodman & Renshaw, LLC for Unit offering of Common Stock and Series A and Series B Warrants (incorporated by reference to Exhibit 1.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.15	Form of Securities Purchase Agreement dated as of December 9, 2009 by and between the Company and each investor signatory thereto for Unit offering of Common Stock and Series A and Series B Warrants (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.16	Form of Common Stock Purchase Warrant for Series A and Series B Warrants (incorporated by reference to Exhibit 4.1 to the Company's Current Report on Form 8-K filed December 10, 2009).
4.17	Form of Series H Warrant issued by the Company on February 11, 2011 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed February 8, 2011).
10.1+	Opexa Therapeutics, Inc. June 2004 Compensatory Stock Option Plan (incorporated by reference to Exhibit B to the Company's Definitive Information Statement on Schedule 14C filed on June 29, 2004, File No. 000-25513).
10.2+	Certificate of Amendments to the Opexa Therapeutics, Inc. June 2004 Compensatory Stock Option Plan (incorporated by reference to Exhibit 10.15 of the Company's Annual Report on Form 10-K filed March 5, 2010).
10.3+	Employment Agreement dated June 16, 2008 by and between the Company and Neil K. Warma (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on June 18, 2008).
10.4+	Employment Agreement dated April 14, 2009 between the Company and Donna R. Rill (incorporated by reference to Exhibit 10.6 of the Company's Current Report on Form 8-K filed April 16, 2009).
10.5+	Amended and Restated Employment Agreement entered into on April 21, 2010 by and between the Company and Donna R. Rill (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 8-K filed April 27, 2010).
10.6+	Employment Agreement dated November 16, 2009 by and between the Company and Jaye L. Thompson.
10.7	License Agreement dated September 5, 2001 by and between the Company and Baylor College of Medicine (incorporated by reference to Exhibit 10.14 to the Company's Annual Report on Form 10-KSB filed April 15, 2005, File No. 000-25513).
10.8	Lease dated August 19, 2005 by and between the Company and Dirk D. Laukien (incorporated by reference to Exhibit 10.13 to the Company's Annual Report on Form 10-KSB filed March 31, 2006).
10.9	License Agreement dated January 13, 2006 by and between the Company and Shanghai Institute for Biological Services (incorporated by reference to Exhibit 10.23 to the Company's Registration Statement on Form SB-2 (Amendment No. 1) filed February 9, 2006, File No. 333-126687).
10.10	Second Amended and Restated License Agreement dated July 31, 2007 by and between the Company and the University of Chicago (incorporated by reference to Exhibit 10.1 of the Company's Report on Form 8-K filed August 3, 2007).
10.11++	Asset Purchase Agreement by and between the Company and Novartis Institutes for Biomedical Research, Inc. dated August 6, 2009 (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed August 7, 2009).
10.12+	Opexa Therapeutics, Inc. 2010 Stock Incentive Plan (incorporated by reference to Appendix A to the Company's Schedule 14A definitive proxy statement filed September 14, 2010).
10.13+	Form of award agreement for awards to be made under the Opexa Therapeutics, Inc. 2010 Stock Incentive Plan (incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K filed October 22, 2010).
10.14	Continuous Offering Program Agreement dated May 14, 2010 by and between the Company and Rodman & Renshaw, LLC (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed on May 17, 2010) (subsequently terminated February 7, 2011 as disclosed in the Company's Current Report on Form 8-K filed on February 7, 2011).

Exhibit No.	Description
23.1*	Consent of Independent Registered Public Accounting Firm MaloneBailey, LLP, dated March 8, 2011 to the incorporation by reference of their report dated March 8, 2011, in the Company's Registration Statements on Form S-8 and S-3.
31.1*	Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certification of Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

* Filed herewith

+ Management contract or compensatory plan or arrangement.

++ Confidential treatment has been requested as to certain portions of this Exhibit pursuant to Rule 406 promulgated under the Securities Act. Such portions have been omitted and filed separately with the SEC.

**AMENDED AND RESTATED BYLAWS
OF
OPEXA THERAPEUTICS, INC.
a Texas corporation**

(as amended and restated through November 11, 2009)

ARTICLE 1

DEFINITIONS

1.1 Definitions. Unless the context clearly requires otherwise, in these Bylaws:

(a) "Board" means the board of directors of the Company.

(b) "Bylaws" means these bylaws as adopted by the Board and includes amendments subsequently adopted by the Board or by the Stockholders.

(c) "Articles of Incorporation" means the Articles of Incorporation of Opexa Therapeutics, Inc., as filed with the Secretary of State of the State of Texas and includes all amendments thereto and restatements thereof subsequently filed.

(d) "Company" means Opexa Therapeutics, Inc., a Texas corporation.

(e) "Section" refers to sections of these Bylaws.

(f) "Stockholder" means stockholders of record of the Company.

1.2 Offices. The title of an office refers to the person or persons who at any given time perform the duties of that particular office for the Company.

ARTICLE 2

OFFICES

2.1 Principal Office. The Company may locate its principal office within or without the state of incorporation as the Board may determine.

2.2 Registered Office. The registered office of the Company required by law to be maintained in the state of incorporation may be, but need not be, the same as the principal place of business of the Company. The Board may change the address of the registered office from time to time.

2.3 Other Offices. The Company may have offices at such other places, either within or without the state of incorporation, as the Board may designate or as the business of the Company may require from time to time.

ARTICLE 3

MEETINGS OF STOCKHOLDERS

3.1 Annual Meetings. The Stockholders of the Company shall hold their annual meetings for the purpose of electing directors and for the transaction of such other proper business as may come before such meetings at such time, date and place as the Board shall determine by resolution.

3.2 Special Meetings. The Board, the Chairman of the Board, the President or a committee of the Board duly designated and whose powers and authority include the power to call meetings may call special meetings of the Stockholders of the Company at any time for any purpose or purposes. Special meetings of the Stockholders of the Company may also be called by the holders of at least 30% of all shares entitled to vote at the proposed special meeting.

3.3 Place of Meetings. The Stockholders shall hold all meetings at such places, within or without the State of Texas, as the Board or a committee of the Board shall specify in the notice or waiver of notice for such meetings.

3.4 Notice of Meetings. Except as otherwise required by law, the Board or a committee of the Board shall give notice of each meeting of Stockholders, whether annual or special, not less than 10 nor more than 50 days before the date of the meeting. The Board or a committee of the Board shall deliver a notice to each Stockholder entitled to vote at such meeting by delivering a typewritten or printed notice thereof to him personally, or by depositing such notice in the United States mail, in a postage prepaid envelope, directed to him at his address as it appears on the records of the Company, or by transmitting a notice thereof to him at such address by telegraph, telecopy, cable or wireless. If mailed, notice is given on the date deposited in the United States mail, postage prepaid, directed to the Stockholder at his address as it appears on the records of the Company. An affidavit of the Secretary or an Assistant Secretary or of the Transfer Agent of the Company that he has given notice shall constitute, in the absence of fraud, prima facie evidence of the facts stated therein.

Every notice of a meeting of the Stockholders shall state the place, date and hour of the meeting and, in the case of a special meeting, also shall state the purpose or purposes of the meeting. Furthermore, if the Company will maintain the list at a place other than where the meeting will take place, every notice of a meeting of the Stockholders shall specify where the Company will maintain the list of Stockholders entitled to vote at the meeting.

3.5 Stockholder Notice. Subject to the Articles of Incorporation, the Stockholders who intend to nominate persons to the Board of Directors or propose any other action at an annual meeting of Stockholders must timely notify the Secretary of the Company of such intent. To be timely, a Stockholder's notice must be delivered to or mailed and received at the principal executive offices of the Company not less than 50 days nor more than 90 days prior to the date of such meeting; provided, however, that in the event that less than 75 days' notice of the date of the meeting is given or made to Stockholders, notice by the Stockholder to be timely must be received not later than the close of business on the 15th day following the date on which such notice of the date of the annual meeting was mailed. Such notice must be in writing and must

include a (i) a brief description of the business desired to be brought before the annual meeting and the reasons for conducting such business at the meeting; (ii) the name and record address of the Stockholder proposing such business; (iii) the class, series and number of shares of capital stock of the Company which are beneficially owned by the Stockholder; and (iv) any material interest of the Stockholder in such business. The Board of Directors reserves the right to refuse to submit any such proposal to stockholders at an annual meeting if, in its judgment, the information provided in the notice is inaccurate or incomplete.

3.6 Waiver of Notice. Whenever these Bylaws require written notice, a written waiver thereof, signed by the person entitled to notice, whether before or after the time stated therein, shall constitute the equivalent of notice. Attendance of a person at any meeting shall constitute a waiver of notice of such meeting, except when the person attends the meeting for the express purpose of objecting, at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. No written waiver of notice need specify either the business to be transacted at, or the purpose or purposes of any regular or special meeting of the Stockholders, directors or members of a committee of the Board.

3.7 Adjournment of Meeting. When the Stockholders adjourn a meeting to another time or place, notice need not be given of the adjourned meeting if the time and place thereof are announced at the meeting at which the adjournment is taken. At the adjourned meeting, the Stockholders may transact any business which they may have transacted at the original meeting. If the adjournment is for more than 30 days or, if after the adjournment, the Board or a committee of the Board fixes a new record date for the adjourned meeting, the Board or a committee of the Board shall give notice of the adjourned meeting to each Stockholder of record entitled to vote at the meeting.

3.8 Quorum. Except as otherwise required by law, the holders of a majority of all of the shares of the stock entitled to vote at the meeting, present in person or by proxy, shall constitute a quorum for all purposes at any meeting of the Stockholders. In the absence of a quorum at any meeting or any adjournment thereof, the holders of a majority of the shares of stock entitled to vote who are present, in person or by proxy, or, in the absence thereof of all the Stockholders, any officer entitled to preside at, or to act as secretary of, such meeting may adjourn such meeting to another place, date or time.

If the chairman of the meeting gives notice of any adjourned special meeting of Stockholders to all Stockholders entitled to vote thereat, stating that the minimum percentage of stockholders for a quorum as provided by Texas law shall constitute a quorum, then, except as otherwise required by law, that percentage at such adjourned meeting shall constitute a quorum and a majority of the votes cast at such meeting shall determine all matters.

3.9 Organization. Such person as the Board may have designated or, in the absence of such a person, the highest ranking officer of the Company who is present shall call to order any meeting of the Stockholders, determine the presence of a quorum, and act as chairman of the meeting. In the absence of the Secretary or an Assistant Secretary of the Company, the chairman shall appoint someone to act as the secretary of the meeting.

3.10 Conduct of Business. The chairman of any meeting of Stockholders shall determine the order of business and the procedure at the meeting, including such regulations of the manner of voting and the conduct of discussion as he deems in order.

3.11 List of Stockholders. At least 10 days before every meeting of Stockholders, the Secretary shall prepare a list of the Stockholders entitled to vote at the meeting or any adjournment thereof, arranged in alphabetical order, showing the address of each Stockholder and the number of shares registered in the name of each Stockholder. The Company shall make the list available for examination by any Stockholder for any purpose germane to the meeting, during ordinary business hours, for a period of at least 10 days prior to the meeting, either at a place within the city where the meeting will take place or at the place designated in the notice of the meeting.

The Secretary shall produce and keep the list at the time and place of the meeting during the entire duration of the meeting, and any Stockholder who is present may inspect the list at the meeting. The list shall constitute presumptive proof of the identity of the Stockholders entitled to vote at the meeting and the number of shares each Stockholder holds.

A determination of Stockholders entitled to vote at any meeting of Stockholders pursuant to this Section shall apply to any adjournment thereof.

3.12 Fixing of Record Date. For the purpose of determining Stockholders entitled to notice of or to vote at any meeting of Stockholders or any adjournment thereof, or Stockholders entitled to receive payment of any dividend, or in order to make a determination of Stockholders for any other proper purpose, the Board or a committee of the Board may fix in advance a date as the record date for any such determination of Stockholders. However, the Board shall not fix such date, in any case, more than 50 days nor less than 10 days prior to the date of the particular action.

If the Board or a committee of the Board does not fix a record date for the determination of Stockholders entitled to notice of or to vote at a meeting of Stockholders, the record date shall be at the close of business on the day next preceding the day on which notice is given or if notice is waived, at the close of business on the day next preceding the day on which the meeting is held or the date on which the Board adopts the resolution declaring a dividend.

3.13 Voting of Shares. Each Stockholder shall have one vote for every share of stock having voting rights registered in his name on the record date for the meeting. The Company shall not have the right to vote treasury stock of the Company, nor shall another corporation have the right to vote its stock of the Company if the Company holds, directly or indirectly, a majority of the shares entitled to vote in the election of directors of such other corporation. Persons holding stock of the Company in a fiduciary capacity shall have the right to vote such stock. Persons who have pledged their stock of the Company shall have the right to vote such stock unless in the transfer on the books of the Company the pledgor expressly empowered the pledgee to vote such stock. In that event, only the pledgee, or his proxy, may represent such stock and vote thereon.

A plurality of the votes of the shares present in person or represented by proxy at the meeting and entitled to vote shall determine all elections and, except when the law or Articles of Incorporation requires otherwise, the affirmative vote of a majority of the shares present in person or represented by proxy at the meeting and entitled to vote shall determine all other matters.

Where a separate vote by a class or classes is required, a majority of the outstanding shares of such class or classes, present in person or represented by proxy, shall constitute a quorum entitled to take action with respect to that vote on that matter and the affirmative vote of the majority of shares of such class or classes present in person or represented by proxy at the meeting shall be the act of such class.

The Stockholders may vote by voice vote on all matters. Upon demand by a Stockholder entitled to vote, or his proxy, the Stockholders shall vote by ballot. In that event, each ballot shall state the name of the Stockholder or proxy voting, the number of shares voted and such other information as the Company may require under the procedure established for the meeting.

3.14 Inspectors. At any meeting in which the Stockholders vote by ballot, the chairman may appoint one or more inspectors. Each inspector shall take and sign an oath to execute the duties of inspector at such meeting faithfully, with strict impartiality, and according to the best of his ability. The inspectors shall ascertain the number of shares outstanding and the voting power of each; determine the shares represented at a meeting and the validity of proxies and ballots; count all votes and ballots; determine and retain for a reasonable period a record of the disposition of any challenges made to any determination by the inspectors; and certify their determination of the number of shares represented at the meeting, and their count of all votes and ballots. The certification required herein shall take the form of a subscribed, written report prepared by the inspectors and delivered to the Secretary of the Company. An inspector need not be a Stockholder of the Company, and any officer of the Company may be an inspector on any question other than a vote for or against a proposal in which he has a material interest.

3.15 Proxies. A Stockholder may exercise any voting rights in person or by his proxy appointed by an instrument in writing, which he or his authorized attorney-in-fact has subscribed and which the proxy has delivered to the secretary of the meeting pursuant to the manner prescribed by law.

A proxy is not valid after the expiration of 13 months after the date of its execution, unless the person executing it specifies thereon the length of time for which it is to continue in force (which length may exceed 12 months) or limits its use to a particular meeting. Each proxy is irrevocable if it expressly states that it is irrevocable and if, and only as long as, it is coupled with an interest sufficient in law to support an irrevocable power.

The attendance at any meeting of a Stockholder who previously has given a proxy shall not have the effect of revoking the same unless he notifies the Secretary in writing prior to the voting of the proxy.

3.16 Action by Consent. Any action required to be taken at any annual or special meeting of stockholders of the Company or any action which may be taken at any annual or special meeting of such stockholders, may be taken without a meeting, without prior notice and without a vote, if a consent or consents in writing setting forth the action so taken, shall be signed by the holders of outstanding stock having not less than the minimum number of votes that would be necessary to authorize or take such action at a meeting at which all shares entitled to vote thereon were present and voted and shall be delivered to the Company by delivery to its registered office, its principal place of business, or an officer or agent of the Company having custody of the book in which proceedings of meetings of stockholders are recorded. Delivery made to the Company's registered office shall be by hand or by certified or registered mail, return receipt requested.

Every written consent shall bear the date of signature of each stockholder who signs the consent, and no written consent shall be effective to take the corporate action referred to therein unless, within 50 days of the earliest dated consent delivered in the manner required by this section to the Company, written consents signed by a sufficient number of holders to take action are delivered to the Company by delivery to its registered office, its principal place of business or an officer or agent of the Company having custody of the book in which proceedings of meetings of stockholders are recorded. Delivery made to the Company's registered office shall be by hand or by certified or registered mail, return receipt requested.

Prompt notice of the taking of the corporate action without a meeting by less than unanimous written consent shall be given to those stockholders who have not consented in writing.

ARTICLE 4

BOARD OF DIRECTORS

4.1 General Powers. The Board shall manage the property, business and affairs of the Company.

4.2 Number. The number of directors who shall constitute the Board shall equal not less than two nor more than 10, as the Board may determine by resolution from time to time.

4.3 Election of Directors and Term of Office. The Stockholders of the Company shall elect the directors at the annual or adjourned annual meeting (except as otherwise provided herein for the filling of vacancies). Each director shall hold office until his death, resignation, retirement, removal, or disqualification, or until his successor shall have been elected and qualified.

4.4 Resignations. Any director of the Company may resign at any time by giving written notice to the Board or to the Secretary of the Company. Any resignation shall take effect upon receipt or at the time specified in the notice. Unless the notice specifies otherwise, the effectiveness of the resignation shall not depend upon its acceptance.

4.5 Removal. Stockholders holding a majority of the outstanding shares entitled to vote at an election of directors may remove any director or the entire Board of Directors at any time, with or without cause.

4.6 Vacancies. A majority of the remaining directors, although less than a quorum, or a sole remaining director may fill any vacancy on the Board, whether because of death, resignation, disqualification, an increase in the number of directors, or any other cause. Any director elected to fill a vacancy shall hold office until his death, resignation, retirement, removal, or disqualification, or until his successor shall have been elected and qualified.

4.7 Chairman of the Board. At the initial and annual meeting of the Board, the directors may elect from their number a Chairman of the Board of Directors. The Chairman shall preside at all meetings of the Board and shall perform such other duties as the Board may direct. The Board also may elect a Vice Chairman and other officers of the Board, with such powers and duties as the Board may designate from time to time.

4.8 Compensation. The Board may compensate directors for their services and may provide for the payment of all expenses the directors incur by attending meetings of the Board or otherwise.

ARTICLE 5

MEETINGS OF DIRECTORS

5.1 Regular Meetings. The Board may hold regular meetings at such places, dates and times as the Board shall establish by resolution. If any day fixed for a meeting falls on a legal holiday, the Board shall hold the meeting at the same place and time on the next succeeding business day. The Board need not give notice of regular meetings.

5.2 Place of Meetings. The Board may hold any of its meetings in or out of the State of Texas, at such places as the Board may designate, at such places as the notice or waiver of notice of any such meeting may designate, or at such places as the persons calling the meeting may designate.

5.3 Meetings by Telecommunications. The Board or any committee of the Board may hold meetings by means of conference telephone or similar telecommunications equipment that enable all persons participating in the meeting to hear each other. Such participation shall constitute presence in person at such meeting.

5.4 Special Meetings. The Chairman of the Board, the President, or one-half of the directors then in office may call a special meeting of the Board. The person or persons authorized to call special meetings of the Board may fix any place, either in or out of the State of Texas as the place for the meeting.

5.5 Notice of Special Meetings. The person or persons calling a special meeting of the Board shall give written notice to each director of the time, place, date and purpose of the meeting of not less than three business days if by mail and not less than 24 hours if by telegraph or in person before the date of the meeting. If mailed, notice is given on the date deposited in the United States mail, postage prepaid, to such director. A director may waive notice of any special meeting, and any meeting shall constitute a legal meeting without notice if all the directors are present or if those not present sign either before or after the meeting a written waiver of notice, a consent to such meeting, or an approval of the minutes of the meeting. A notice or waiver of notice need not specify the purposes of the meeting or the business which the Board will transact at the meeting.

5.6 Waiver by Presence. Except when expressly for the purpose of objecting to the legality of a meeting, a director's presence at a meeting shall constitute a waiver of notice of such meeting.

5.7 Quorum. A majority of the directors then in office shall constitute a quorum for all purposes at any meeting of the Board. In the absence of a quorum, a majority of directors present at any meeting may adjourn the meeting to another place, date or time without further notice. No proxies shall be given by directors to any person for purposes of voting or establishing a quorum at a directors meetings.

5.8 Conduct of Business. The Board shall transact business in such order and manner as the Board may determine. Except as the law requires otherwise, the Board shall determine all matters by the vote of a majority of the directors present at a meeting at which a quorum is present. The directors shall act as a Board, and the individual directors shall have no power as such.

5.9 Action by Consent. The Board or a committee of the Board may take any required or permitted action without a meeting if all members of the Board or committee consent thereto in writing and file such consent with the minutes of the proceedings of the Board or committee.

ARTICLE 6

COMMITTEES

6.1 Committees of the Board. The Board may designate, by a vote of a majority of the directors then in office, committees of the Board. The committees shall serve at the pleasure of the Board and shall possess such lawfully delegable powers and duties as the Board may confer.

6.2 Selection of Committee Members. The Board shall elect by a vote of a majority of the directors then in office a director or directors to serve as the member or members of a committee. By the same vote, the Board may designate other directors as alternate members who may replace any absent or disqualified member at any meeting of a committee. In the absence or disqualification of any member of any committee and any alternate member in his place, the member or members of the committee present at the meeting and not disqualified from voting, whether or not he or they constitute a quorum, may appoint by unanimous vote another member of the Board to act at the meeting in the place of the absent or disqualified member.

6.3 Conduct of Business. Each committee may determine the procedural rules for meeting and conducting its business and shall act in accordance therewith, except as the law or these Bylaws require otherwise. Each committee shall make adequate provision for notice of all meetings to members. A majority of the members of the committee shall constitute a quorum, unless the committee consists of one or two members. In that event, one member shall constitute a quorum. A majority vote of the members present shall determine all matters. A committee may take action without a meeting if all the members of the committee consent in writing and file the consent or consents with the minutes of the proceedings of the committee.

6.4 Authority. Any committee, to the extent the Board provides, shall have and may exercise all the powers and authority of the Board in the management of the business and affairs of the Company, and may authorize the affixation of the Company's seal to all instruments which may require or permit it. However, no committee shall have any power or authority with regard to amending the Articles of Incorporation, adopting an agreement of merger or consolidation, recommending to the Stockholders the sale, lease or exchange of all or substantially all of the Company's property and assets, recommending to the Stockholders a dissolution of the Company or a revocation of a dissolution of the Company, or amending these Bylaws of the Company. Unless a resolution of the Board expressly provides, no committee shall have the power or authority to declare a dividend, to authorize the issuance of stock, or to adopt a certificate of ownership and merger.

6.5 Minutes. Each committee shall keep regular minutes of its proceedings and report the same to the Board when required.

ARTICLE 7

OFFICERS

7.1 Officers of the Company. The officers of the Company shall consist of a Chief Executive Officer, a President, a Chief Financial Officer, a Secretary and such Vice Presidents, Assistant Secretaries, Assistant Treasurers, and other officers as the Board may designate and elect from time to time. The same person may hold at the same time any two or more offices.

7.2 Election and Term. The Board shall elect the officers of the Company. Each officer shall hold office until his death, resignation, retirement, removal or disqualification, or until his successor shall have been elected and qualified.

7.3 Compensation of Officers. The Board shall fix the compensation of all officers of the Company. No officer shall serve the Company in any other capacity and receive compensation, unless the Board authorizes the additional compensation.

7.4 Removal of Officers and Agents. The Board may remove any officer or agent it has elected or appointed at any time, with or without cause.

7.5 Resignation of Officers and Agents. Any officer or agent the Board has elected or appointed may resign at any time by giving written notice to the Board, the Chairman of the Board, the President, or the Secretary of the Company. Any such resignation shall take effect at the date of the receipt of such notice or at any later time specified. Unless otherwise specified in the notice, the Board need not accept the resignation to make it effective.

7.6 Bond. The Board may require by resolution any officer, agent, or employee of the Company to give bond to the Company, with sufficient sureties conditioned on the faithful performance of the duties of his respective office or agency. The Board also may require by resolution any officer, agent or employee to comply with such other conditions as the Board may require from time to time.

7.7 President. The President shall be the chief operating officer of the Company and, subject to the Board's control, shall supervise and direct all of the business and affairs of the Company. When present, he shall sign (with or without the Secretary, an Assistant Secretary, or any other officer or agent of the Company which the Board has authorized) deeds, mortgages, bonds, contracts or other instruments which the Board has authorized an officer or agent of the Company to execute. However, the President shall not sign any instrument which the law, these Bylaws, or the Board expressly require some other officer or agent of the Company to sign and execute. In general, the President shall perform all duties incident to the office of President and such other duties as the Board may prescribe from time to time.

7.8 Vice Presidents. In the absence of the President or in the event of his death, inability or refusal to act, the Vice Presidents in the order of their length of service as Vice Presidents, unless the Board determines otherwise, shall perform the duties of the President. When acting as the President, a Vice President shall have all the powers and restrictions of the Presidency. A Vice President shall perform such other duties as the President or the Board may assign to him from time to time.

7.9 Secretary. The Secretary shall (a) keep the minutes of the meetings of the Stockholders and of the Board in one or more books for that purpose, (b) give all notices which these Bylaws or the law requires, (c) serve as custodian of the records and seal of the Company, (d) affix the seal of the corporation to all documents which the Board has authorized execution on behalf of the Company under seal, (e) maintain a register of the address of each Stockholder of the Company, (f) sign, with the President, a Vice President, or any other officer or agent of the Company which the Board has authorized, certificates for shares of the Company, (g) have charge of the stock transfer books of the Company, and (h) perform all duties which the President or the Board may assign to him from time to time.

7.10 Assistant Secretaries. In the absence of the Secretary or in the event of his death, inability or refusal to act, the Assistant Secretaries in the order of their length of service as Assistant Secretary, unless the Board determines otherwise, shall perform the duties of the Secretary. When acting as the Secretary, an Assistant Secretary shall have the powers and restrictions of the Secretary. An Assistant Secretary shall perform such other duties as the President, Secretary or Board may assign from time to time.

7.11 Treasurer. The Treasurer shall (a) have responsibility for all funds and securities of the Company, (b) receive and give receipts for moneys due and payable to the corporation from any source whatsoever, (c) deposit all moneys in the name of the Company in depositories which the Board selects, and (d) perform all of the duties which the President or the Board may assign to him from time to time.

7.12 Assistant Treasurers. In the absence of the Treasurer or in the event of his death, inability or refusal to act, the Assistant Treasurers in the order of their length of service as Assistant Treasurer, unless the Board determines otherwise, shall perform the duties of the Treasurer. When acting as the Treasurer, an Assistant Treasurer shall have the powers and restrictions of the Treasurer. An Assistant Treasurer shall perform such other duties as the Treasurer, the President, or the Board may assign to him from time to time.

7.13 Delegation of Authority. Notwithstanding any provision of these Bylaws to the contrary, the Board may delegate the powers or duties of any officer to any other officer or agent.

7.14 Action with Respect to Securities of Other Corporations. Unless the Board directs otherwise, the President shall have the power to vote and otherwise act on behalf of the Company, in person or by proxy, at any meeting of stockholders of or with respect to any action of stockholders of any other corporation in which the Company holds securities. Furthermore, unless the Board directs otherwise, the President shall exercise any and all rights and powers which the Company possesses by reason of its ownership of securities in another corporation.

7.15 Vacancies. The Board may fill any vacancy in any office because of death, resignation, removal, disqualification or any other cause in the manner which these Bylaws prescribe for the regular appointment to such office.

ARTICLE 8

CONTRACTS, LOANS, DRAFTS, DEPOSITS AND ACCOUNTS

8.1 Contracts. The Board may authorize any officer or officers, agent or agents, to enter into any contract or execute and deliver any instrument in the name and on behalf of the Company. The Board may make such authorization general or special.

8.2 Loans. Unless the Board has authorized such action, no officer or agent of the Company shall contract for a loan on behalf of the Company or issue any evidence of indebtedness in the Company's name.

8.3 Drafts. The President, any Vice President, the Treasurer, any Assistant Treasurer, and such other persons as the Board shall determine shall issue all checks, drafts and other orders for the payment of money, notes and other evidences of indebtedness issued in the name of or payable by the Company.

8.4 Deposits. The Treasurer shall deposit all funds of the Company not otherwise employed in such banks, trust companies, or other depositories as the Board may select or as any officer, assistant, agent or attorney of the Company to whom the Board has delegated such power may select. For the purpose of deposit and collection for the account of the Company, the President or the Treasurer (or any other officer, assistant, agent or attorney of the Company whom the Board has authorized) may endorse, assign and deliver checks, drafts and other orders for the payment of money payable to the order of the Company.

8.5 General and Special Bank Accounts. The Board may authorize the opening and keeping of general and special bank accounts with such banks, trust companies, or other depositories as the Board may select or as any officer, assistant, agent or attorney of the Company to whom the Board has delegated such power may select. The Board may make such special rules and regulations with respect to such bank accounts, not inconsistent with the provisions of these Bylaws, as it may deem expedient.

ARTICLE 9

CERTIFICATES FOR SHARES AND THEIR TRANSFER

9.1 Certificates for Shares. Every owner of stock of the Company shall have the right to receive a certificate or certificates, certifying to the number and class of shares of the stock of the Company which he or she owns that are in certificate form, or the shares of the Company may be uncertificated shares evidenced by a book-entry system maintained by or through the Company's transfer agent or registrar of such stock. The Board shall determine the form of any certificates for the shares of stock of the Company. The Secretary, transfer agent, or registrar of the Company shall number any certificates representing shares of the stock of the Company in the order in which the Company issues them. The President or any Vice President and the Secretary or any Assistant Secretary shall sign the certificates in the name of the Company. Any or all certificates may contain facsimile signatures. In case any officer, transfer agent, or registrar who has signed a certificate, or whose facsimile signature appears on a certificate, ceases to serve as such officer, transfer agent, or registrar before the Company issues the certificate, the Company may issue the certificate with the same effect as though the person who signed such certificate, or whose facsimile signature appears on the certificate, was such officer, transfer agent, or registrar at the date of issue. The Secretary, transfer agent, or registrar of the Company shall keep a record in the stock transfer books of the Company or a book-entry system of the names of the persons, firms or corporations owning the stock as uncertificated shares or represented by certificates, the number and class of shares held and the dates thereof and, in the case of cancellation, the dates of cancellation. The Secretary, transfer agent, or registrar of the Company shall cancel every certificate surrendered to the Company for exchange or transfer. Except in the case of a lost, destroyed, stolen or mutilated certificate, the Secretary, transfer agent, or registrar of the Company shall not issue a new certificate in exchange for an existing certificate until he or she has cancelled the existing certificate.

9.2 Transfer of Shares. A holder of record of shares of the Company's stock, or his or her attorney-in-fact authorized by power of attorney duly executed and filed with the Secretary, transfer agent or registrar of the Company, may transfer his or her shares only on the stock transfer books of the Company. Such person shall furnish to the Secretary, transfer agent, or registrar of the Company proper evidence of his or her authority to make the transfer and shall properly endorse and surrender for cancellation any existing certificate or certificates for such shares if they are in certificated form. Whenever a holder of record of shares of the Company's stock makes a transfer of shares for collateral security, the Secretary, transfer agent, or registrar of the Company shall state such fact in the entry of transfer if the transferor and the transferee request.

9.3 Lost Certificates. The Board may direct the Secretary, transfer agent, or registrar of the Company to issue a new certificate to any holder of record of shares of the Company's stock claiming that he or she has lost such certificate, or that someone has stolen, destroyed or mutilated such certificate, upon the receipt of an affidavit from such holder to such fact. When authorizing the issue of a new certificate, the Board, in its discretion may require as a condition precedent to the issuance that the owner of such certificate give the Company a bond of indemnity in such form and amount as the Board may direct.

9.4 Regulations. The Board may make such rules and regulations, not inconsistent with these Bylaws, as it deems expedient concerning the issue, transfer and registration of certificates for shares of the stock of the corporation. The Board may appoint or authorize any officer or officers to appoint one or more transfer agents, or one or more registrars, and may require all certificates for stock to bear the signature or signatures of any of them.

9.5 Holder of Record. The Company may treat as absolute owners of shares the person in whose name the shares stand of record as if that person had full competency, capacity and authority to exercise all rights of ownership, despite any knowledge or notice to the contrary or any description indicating a representative, pledge or other fiduciary relation, or any reference to any other instrument or to the rights of any other person appearing upon its record or upon the share certificate. However, the Company may treat any person furnishing proof of his appointment as a fiduciary as if he were the holder of record of the shares.

9.6 Treasury Shares. Treasury shares of the Company shall consist of shares which the Company has issued and thereafter acquired but not canceled. Treasury shares shall not carry voting or dividend rights.

ARTICLE 10

INDEMNIFICATION

10.1 Definitions. In this Article:

(a) "Indemnitee" means (i) any present or former Director, advisory director or officer of the Company, (ii) any person who while serving in any of the capacities referred to in clause (i) hereof served at the Company's request as a director, officer, partner, venturer, proprietor, trustee, employee, agent or similar functionary of another foreign or domestic corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, and (iii) any person nominated or designated by (or pursuant to authority granted by) the Board of Directors or any committee thereof to serve in any of the capacities referred to in clauses (i) or (ii) hereof.

(b) "Official Capacity" means (i) when used with respect to a Director, the office of Director of the Company, and (ii) when used with respect to a person other than a Director, the elective or appointive office of the Company held by such person or the employment or agency relationship undertaken by such person on behalf of the Company, but in each case does not include service for any other foreign or domestic corporation or any partnership, joint venture, sole proprietorship, trust, employee benefit plan or other enterprise.

(c) "Proceeding" means any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative, arbitrative or investigative, any appeal in such an action, suit or proceeding, and any inquiry or investigation that could lead to such an action, suit or proceeding.

10.2 Indemnification. The Company shall indemnify every Indemnitee against all judgments, penalties (including excise and similar taxes), fines, amounts paid in settlement and reasonable expenses actually incurred by the Indemnitee in connection with any Proceeding in which he was, is or is threatened to be named defendant or respondent, or in which he was or is a witness without being named a defendant or respondent, by reason, in whole or in part, of his serving or having served, or having been nominated or designated to serve, in any of the capacities referred to in Section 10.1, if it is determined in accordance with Section 10.4 that the Indemnitee (a) conducted himself in good faith, (b) reasonably believed, in the case of conduct in his Official Capacity, that his conduct was in the Company's best interests and, in all other cases, that his conduct was at least not opposed to the Company's best interests, and (c) in the case of any criminal proceeding, had no reasonable cause to believe that his conduct was unlawful; provided, however, that in the event that an Indemnitee is found liable to the Company or is found liable on the basis that personal benefit was improperly received by the Indemnitee the indemnification (i) is limited to reasonable expenses actually incurred by the Indemnitee in connection with the Proceeding and (ii) shall not be made in respect of any Proceeding in which the Indemnitee shall have been found liable for willful or intentional misconduct in the performance of his duty to the Company. Except as provided in the immediately preceding proviso to the first sentence of this Section 10.2, no indemnification shall be made under this Section 10.2 in respect of any Proceeding in which such Indemnitee shall have been (x) found liable on the basis that personal benefit was improperly received by him, whether or not the benefit resulted from an action taken in the Indemnitee's Official Capacity, or (y) found liable to the Company. The termination of any Proceeding by judgment, order, settlement or conviction, or on a plea of nolo contendere or its equivalent, is not of itself determinative that the Indemnitee did not meet the requirements set forth in clauses (a), (b) or (c) in the first sentence of this Section 10.2. An Indemnitee shall be deemed to have been found liable in respect of any claim, issue or matter only after the Indemnitee shall have been so adjudged by a court of competent jurisdiction after exhaustion of all appeals therefrom. Reasonable expenses shall, include, without limitation, all court costs and all fees and disbursements of attorneys for the Indemnitee. The indemnification provided herein shall be applicable whether or not negligence or gross negligence of the Indemnitee is alleged or proven.

10.3 Successful Defense. Without limitation of Section 10.2 and in addition to the indemnification provided for in Section 10.2, the Company shall indemnify every Indemnitee against reasonable expenses incurred by such person in connection with any Proceeding in which he is a witness or a named defendant or respondent because he served in any of the capacities referred to in Section 10.1, if such person has been wholly successful, on the merits or otherwise, in defense of the Proceeding.

10.4 Determinations. Any indemnification under Section 10.2 (unless ordered by a court of competent jurisdiction) shall be made by the Company only upon a determination that indemnification of the Indemnitee is proper in the circumstances because he has met the applicable standard of conduct. Such determination shall be made (a) by the Board of Directors by a majority vote of a quorum consisting of Directors who, at the time of such vote, are not named defendants or respondents in the Proceeding; (b) if such a quorum cannot be obtained, then by a majority vote of a committee of the Board of Directors, duly designated to act in the matter by a majority vote of all

Directors (in which designated Directors who are named defendants or respondents in the Proceeding may participate), such committee to consist solely of two (2) or more Directors who, at the time of the committee vote, are not named defendants or respondents in the Proceeding; (c) by special legal counsel selected by the Board of Directors or a committee thereof by vote as set forth in clauses (a) or (b) of this Section 10.4 or, if the requisite quorum of all of the Directors cannot be obtained therefor and such committee cannot be established, by a majority vote of all of the Directors (in which Directors who are named defendants or respondents in the Proceeding may participate); or (d) by the shareholders in a vote that excludes the shares held by Directors that are named defendants or respondents in the Proceeding. Determination as to reasonableness of expenses shall be made in the same manner as the determination that indemnification is permissible, except that if the determination that indemnification is permissible is made by special legal counsel, determination as to reasonableness of expenses must be made in the manner specified in clause (c) of the preceding sentence for the selection of special legal counsel. In the event a determination is made under this Section 10.4 that the Indemnitee has met the applicable standard of conduct as to some matters but not as to others, amounts to be indemnified may be reasonably prorated.

10.5 Advancement of Expenses. Reasonable expenses (including court costs and attorneys' fees) incurred by an Indemnitee who was or is a witness or was, is or is threatened to be made a named defendant or respondent in a Proceeding shall be paid by the Company at reasonable intervals in advance of the final disposition of such Proceeding, and without making any of the determinations specified in Section 10.4, after receipt by the Company of (a) a written affirmation by such Indemnitee of his good faith belief that he has met the standard of conduct necessary for indemnification by the Company under this Article and (b) a written undertaking by or on behalf of such Indemnitee to repay the amount paid or reimbursed by the Company if it shall ultimately be determined that he is not entitled to be indemnified by the Company as authorized in this Article. Such written undertaking shall be an unlimited obligation of the Indemnitee but need not be secured and it may be accepted without reference to financial ability to make repayment. Notwithstanding any other provision of this Article, the Company may pay or reimburse expenses incurred by an Indemnitee in connection with his appearance as a witness or other participation in a Proceeding at a time when he is not named a defendant or respondent in the Proceeding.

10.6 Employee Benefit Plans. For purposes of this Article, the Company shall be deemed to have requested an Indemnitee to serve an employee benefit plan whenever the performance by him of his duties to the Company also imposes duties on or otherwise involves services by him to the plan or participants or beneficiaries of the plan. Excise taxes assessed on an Indemnitee with respect to an employee benefit plan pursuant to applicable law shall be deemed fines. Action taken or omitted by an Indemnitee with respect to an employee benefit plan in the performance of his duties for a purpose reasonably believed by him to be in the interest of the participants and beneficiaries of the plan shall be deemed to be for a purpose which is not opposed to the best interests of the Company.

10.7 Other Indemnification and Insurance. The indemnification provided by this Article shall (a) not be deemed exclusive of, or to preclude, any other rights to which those seeking indemnification may at any time be entitled under the Company's Articles of Incorporation, any law, agreement or vote of shareholders or disinterested Directors, or otherwise, or under any policy or policies of insurance purchased and maintained by the Company on behalf of any Indemnitee, both as to action in his Official Capacity and as to action in any other capacity, (b) continue as to a person who has ceased to be in the capacity by reason of which he was an Indemnitee with respect to matters arising during the period he was in such capacity, (c) inure to the benefit of the heirs, executors and administrators of such a person and (d) not be required if and to the extent that the person otherwise entitled to payment of such amounts hereunder has actually received payment therefor under any insurance policy, contract or otherwise.

10.8 Notice. Any indemnification of or advance of expenses to an Indemnitee in accordance with this Article shall be reported in writing to the shareholders of the Company with or before the notice or waiver of notice of the next shareholders' meeting or with or before the next submission to shareholders of a consent to action without a meeting and, in any case, within the 12-month period immediately following the date of the indemnification or advance.

10.9 Construction. The indemnification provided by this Article shall be subject to all valid and applicable laws, including, without limitation, Article 2.02-1 of the Texas Business Company Act, and, in the event this Article or any of the provisions hereof or the indemnification contemplated hereby are found to be inconsistent with or contrary to any such valid laws, the latter shall be deemed to control and this Article shall be regarded as modified accordingly, and, as so modified, to continue in full force and effect.

10.10 Continuing Offer, Reliance, etc. The provisions of this Article (a) are for the benefit of, and may be enforced by, each Indemnitee of the Company, the same as if set forth in their entirety in a written instrument duly executed and delivered by the Company and such Indemnitee and (b) constitute a continuing offer to all present and future Indemnitees. The Company, by its adoption of these Bylaws, (x) acknowledges and agrees that each Indemnitee of the Company has relied upon and will continue to rely upon the provisions of this Article in becoming, and serving in any of the capacities referred to in Section 10.1(a) of this Article, (y) waives reliance upon, and all notices of acceptance of, such provisions by such Indemnitees and (z) acknowledges and agrees that no present or future Indemnitee shall be prejudiced in his right to enforce the provisions of this Article in accordance with their terms by any act or failure to act on the part of the Company.

10.11 Effect of Amendment. No amendment, modification or repeal of this Article or any provision hereof shall in any manner terminate, reduce or impair the right of any past, present or future Indemnitees to be indemnified by the Company, nor the obligation of the Company to indemnify any such Indemnitees, under and in accordance with the provisions of the Article as in effect immediately prior to such amendment, modification or repeal with respect to claims arising from or relating to matters occurring, in whole or in part, prior to such amendment, modification or repeal, regardless of when such claims may arise or be asserted.

ARTICLE 11

TAKEOVER OFFERS

In the event the Company receives a takeover offer, the Board of Directors shall consider all relevant factors in evaluating such offer, including, but not limited to, the terms of the offer, and the potential economic and social impact of such offer on the Company's stockholders, employees, customers, creditors and community in which it operates.

ARTICLE 12

NOTICES

12.1 General. Whenever these Bylaws require notice to any Stockholder, director, officer or agent, such notice does not mean personal notice. A person may give effective notice under these Bylaws in every case by depositing a writing in a post office or letter box in a postpaid, sealed wrapper, or by dispatching a prepaid telegram addressed to such Stockholder, director, officer or agent at his address on the books of the Company. Unless these Bylaws expressly provide to the contrary, the time when the person sends notice shall constitute the time of the giving of notice.

12.2 Waiver of Notice. Whenever the law or these Bylaws require notice, the person entitled to said notice may waive such notice in writing, either before or after the time stated therein.

ARTICLE 13

MISCELLANEOUS

13.1 Facsimile Signatures. In addition to the use of facsimile signatures which these Bylaws specifically authorize, the Company may use such facsimile signatures of any officer or officers, agents or agent, of the Company as the Board or a committee of the Board may authorize.

13.2 Corporate Seal. The Board may provide for a suitable seal containing the name of the Company, of which the Secretary shall be in charge. The Treasurer, any Assistant Secretary, or any Assistant Treasurer may keep and use the seal or duplicates of the seal if and when the Board or a committee of the Board so directs.

13.3 Fiscal Year. The Board shall have the authority to fix and change the fiscal year of the Company.

ARTICLE 14

AMENDMENTS

Subject to the provisions of the Articles of Incorporation, the Stockholders or the Board may amend or repeal these Bylaws at any meeting.

* * *

AMENDMENT OF BYLAWS

OF

OPEXA THERAPEUTICS, INC.

The following amendment of Section 5.5 of the Bylaws of Opexa Therapeutics, Inc. (the "Corporation") was approved by the Directors of the Corporation on November 30, 2009:

"Section 5.5 of the Bylaws of the Corporation be amended to provide that, in addition to notice by telegraph, notice by email or fax of not less than 24 hours (such notice to be effective when transmitted) shall constitute adequate written notice of any special meeting of the Board."

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statement on Forms S-3 (No. 333-153501 and 333-163108), and Form S-8 (No. 333-139196) pertaining to the Opexa Therapeutics, Inc. June 2004 Compensatory Stock Option Plan, of our report dated March 8, 2011 with respect to the audited financial statements of Opexa Therapeutics, Inc. for the years ended December 31, 2010 and 2009.

/s/ MaloneBailey, LLP

MaloneBailey, LLP
www.malone-bailey.com
Houston, Texas

March 8, 2011

**CERTIFICATION PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT**

I, Neil K. Warma, certify that:

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

Date: March 8, 2011

By: /s/ Neil K. Warma
Neil K. Warma
President, Chief Executive Officer and
Acting Chief Financial Officer

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

In connection with the Annual Report of Opexa Therapeutics, Inc. (the "Company") on Form 10-K for the period ending December 31, 2010, (the "Report"), as filed with the Securities and Exchange Commission on the date hereof, I, Neil K. Warma, President, Chief Executive Officer and Acting Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

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

Date: March 8, 2011

By: /s/ Neil K. Warma
Neil K. Warma
President and Chief Executive Officer
(Principal Executive Officer)
Acting Chief Financial Officer
(Principal Financial and Accounting Officer)