

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

FORM 10-KSB

ANNUAL REPORT UNDER SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2007

OR

TRANSITION REPORT UNDER SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number 0-32353

ZIOPHARM Oncology, Inc.

(Exact Name of Small Business Issuer as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of Incorporation or Organization)

84-1475642

(IRS Employer Identification No.)

1180 Avenue of the Americas, 19th Floor, New York, NY

(Address of Principal Executive Offices)

10036

(Zip Code)

(646) 214-0700

(Issuer's Telephone Number, Including Area Code)

(Former Name, Former Address and Former Fiscal Year, if Changed Since Last Report)

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

Common Stock (par value \$0.001 per share)

Check whether the issuer is not required to file reports pursuant to Section 13 or 15(d) of the Exchange Act.

Check whether the issuer (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the past 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

Check if there is no disclosure of delinquent files pursuant to Item 405 of Regulation S-B is not contained in this form, and no disclosure will 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-KSB or any amendment to this form 10-KSB.

Indicate by check mark whether the registration is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

The registrant had no revenue for the most recent fiscal year.

As of February 19, 2008, the aggregate market value of common stock held by non-affiliates of the registrant approximated \$69,221,633 based upon the closing price of the common stock on the NASDAQ Capital Market as of the close of business on that date. Shares of common stock held by each executive officer and director and by each entity that owns 10% or more of the outstanding common stock have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of February 19, 2008, there were 21,298,964 shares of the issuer's common stock, \$.001 par value per share, outstanding.

DOCUMENTS INCORPORATED BY REFERENCE:

Portions of the definitive proxy statement for our 2008 annual meeting of stockholders, which is to be filed within 120 days after the end of the fiscal year ended December 31, 2007, are incorporated by reference into Part III of this Form 10-KSB, to the extent described in Part III.

Traditional Small Business Disclosure Format (check one): Yes No

ZIOPHARM Oncology, Inc.
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Additional Information

Descriptions in this report are qualified by reference to the contents of any contract, agreement or other documents and are not necessarily complete. Reference is made to each such contract or document filed as an exhibit to this report, or previously filed by the Company pursuant to regulations of the Securities and Exchange Commission (the "SEC") (see "Item 13. Exhibits").

References in this document to "us", "we", "our", "the Company", or "the Registrant" refer to ZIOPHARM Oncology, Inc. On September 13, 2005, our wholly-owned subsidiary, ZIO Acquisition Corp., merged with and into ZIOPHARM, Inc. with ZIOPHARM, Inc. remaining as the surviving corporation and our wholly-owned subsidiary. This transaction is referred to throughout this report as the "Merger." On September 14, 2005, ZIOPHARM, Inc. merged with and into us, leaving us as the surviving corporation. In connection with this parent-sub subsidiary merger, we relinquished our prior corporate name, EasyWeb, Inc., and assumed in its place the name "ZIOPHARM Oncology, Inc." The parent-sub subsidiary merger and name change became effective on September 14, 2005. Unless provided otherwise, references in this document to "us", "we", "our", "the Company", or "the Registrant" for periods prior to these transactions refer to ZIOPHARM, Inc. See "Description of Business - Corporate Developments - Acquisition of ZIOPHARM, Inc."

Special Note Regarding Forward Looking Statements

This Annual Report on Form 10-KSB contains statements that are not historical, but are forward-looking in nature, including statements regarding the expectations, beliefs, intentions or strategies regarding the future. In particular, the discussion contained in this report under the heading "Management's Discussion and Analysis or Plan of Operation" includes forward-looking statements that reflect our current views with respect to future events and financial performance. We use words such as we "expect," "anticipate," "believe," and "intend" and similar expressions to identify forward-looking statements. A number of important factors could, individually or in the aggregate, cause actual results to differ materially from those expressed or implied in any forward-looking statements. Such factors include, but are not limited to, our ability to develop successfully our product candidates, to obtain regulatory approval for such product candidates or to successfully commercialize them, our ability to obtain additional financing, our ability to develop and maintain vendor relationships, regulatory developments relating to and the general success of our products, and our ability to protect our proprietary technology. Other risks that may impact forward-looking statements contained in this Annual Report on 10-KSB are described under the heading "Risk Factors."

PART I

Item 1. Description of Business

General

ZIOPHARM Oncology, Inc. is a biopharmaceutical company that is seeking to develop and commercialize a diverse, risk-sensitive portfolio of in-licensed cancer drugs that address unmet medical needs. Our principal focus is on the licensing and development of proprietary drug candidates that are related to cancer therapeutics already on the market or in development and that can be developed in intravenous ("IV") and/or oral forms of administration. We believe this strategy will result in lower risk and expedited drug development programs. While we expect to commercialize our products on our own in North America, we also recognize that promising clinical trial results might also be addressed in partnership with another company with the requisite financial resources. Currently, we are in phase I and/or II studies for three product candidates identified as darinaparsin ("ZIO-101"), palifosfamide ("ZIO-201"), and indibulin ("ZIO-301"). We intend to continue the clinical development of IV darinaparsin for the treatment of certain lymphomas and other hematological malignancies or liver cancer. We also continue to explore the clinical utility of the oral form of darinaparsin in solid tumors. Currently underway are clinical trials to evaluate IV palifosfamide to treat advanced sarcoma. We are also seeking clearance from the U.S. Food and Drug Administration ("FDA") in the form of an investigational new drug ("IND") application to explore the clinical utility of oral administration of palifosfamide. Clinical studies with oral indibulin either alone or in combination for the treatment of an as-yet undetermined solid tumor indication(s) are initiated. We will continue with preclinical studies of our product candidates, and analogs thereof, while evaluating additional candidates for licensing.

Our corporate office is located at 1180 Avenue of the Americas, 19th Floor, New York, NY 10036, and our telephone number is (646) 214-0700. Our business and development operations are located in Boston, Massachusetts.

Cancer Overview

Cancer is a group of diseases characterized by either the runaway growth of cells or the failure of cells to die normally. Often, cancer cells spread to distant parts of the body, where they can form new tumors. Cancer can arise in any organ of the body and, according to the American Cancer Society, strikes one of every two American men and one of every three American women at some point in their lives.

It is reported that there are more than 100 different varieties of cancer divided into six major categories. Carcinomas, the most common type of cancer, originate in tissues that cover a surface or line a cavity of the body. Sarcoma begins in tissue that connects, supports or surrounds other tissues and organs. Lymphomas are cancers of the lymph system, which is a circulatory system that bathes and cleanses the body's cells. Leukemias involve blood-forming tissues and blood cells. As their name indicates, brain tumors are cancers that begin in the brain, and skin cancers, including melanomas, originate in the skin. Cancers are considered metastatic if they spread via the blood or lymphatic system to other parts of the body to form secondary tumors.

Cancer is caused by a series of mutations (alterations) in genes that control cells' ability to grow and divide. Some mutations are inherited; others arise from environmental factors such as smoking or exposure to chemicals, radiation, or viruses that damage cells' DNA. The mutations cause cells to divide relentlessly or lose their normal ability to die.

According to Cancer Statistics 2007 (published in *CA: Cancer Journal for Clinicians*, vol. 57), it was estimated that 559,650 Americans would die from cancer in 2007—more than 1,500 each day. The cost of treating cancer is significant. The National Institute of Health estimates that the overall cost of cancer in 2006 was \$206.3 billion. This cost includes an estimate of \$78.2 billion in direct medical expenses, \$17.9 billion in indirect morbidity costs, and \$110.2 billion in indirect mortality costs.

Cancer Treatments

Major treatments for cancer include surgery, radiotherapy, and chemotherapy; the latter including newer approaches generally referred to as anti-angiogenic or targeted therapies. There are many different drugs that are used to treat cancer, including supportive care. While there are also hundreds of experimental treatments under investigation, we believe cancer treatment will remain a significant unmet medical need for the foreseeable future.

Radiotherapy. Also called radiation therapy, radiotherapy is the treatment of cancer and other diseases with ionizing radiation. Ionizing radiation deposits energy that injures or destroys cells in the area being treated (the target tissue) by damaging their genetic material, making it impossible for these cells to continue growing. Although radiation damages both cancer cells and normal cells, the latter are able to repair themselves and regain proper function. Radiotherapy may be used to treat localized solid tumors such as cancers of the skin, tongue, larynx, brain, breast, or uterine cervix. It can also be used to treat leukemia and lymphoma.

Scientists are also looking for ways to increase the effectiveness of radiation therapy. Two types of investigational drugs are being studied for their effect on cells exposed to radiation. Radiosensitizers increase the damage done to tumor cells by radiation; radioprotectors protect normal tissues from the effects of radiation.

Cytotoxics. Cytotoxics are anticancer drugs that destroy cancer cells by stopping them from multiplying. Healthy cells, especially those that divide quickly can also be harmed with the use of cytotoxics. Harm to healthy cells is what causes side effects. These cells usually repair themselves after chemotherapy and in many cases, newer and often targeted agents may offer a greater therapeutic window—the difference between a dose that is helpful and one that is toxic.

Cytotoxic agents act primarily by disrupting cellular pathways involved in maintaining cellular integrity including blood supply, repair, or activity that affects the production or function of DNA, RNA, or protein. Although there are many cytotoxic agents, there is a considerable overlap in their mechanisms of action. As such, the choice of a particular agent or group of agents is generally not a consequence of a prior prediction of antitumor activity by the drug, but instead the result of empirical clinical trials.

Supportive Care. The treatment of a cancer may include the use of chemotherapy, radiation therapy, biologic response modifiers, surgery, or some combination of all of these or other therapeutic options. All of these treatment options are directed at killing or eradicating the cancer that exists in a patient's body. Unfortunately, the delivery of many cancer therapies adversely affects the body's normal organs. The undesired consequence of harming an organ not involved with cancer is referred to as a complication of treatment or a side effect.

In addition to anemia, fatigue, hair-loss, reduction in blood platelets and white and red blood cells, and bone pain, two of the most common side effects of chemotherapy are nausea and vomiting. Several drugs have been developed to help prevent and control chemotherapy-induced nausea and vomiting, including 5HT₃ receptor antagonists such as ondansetron, which is a selective blocking agent of the hormone serotonin.

Product Candidates

Darinaparsin (“ZIO-101”)

General. Darinaparsin is an organic arsenic compound covered by issued U.S. patents and U.S. and international applications. A commercially available inorganic arsenic (arsenic trioxide [Trisenox[®]]); “ATO”) has been approved for the treatment of acute promyelocytic leukemia (“APL”). ATO is on the compendia listing for the therapy of multiple myeloma and has been studied for the treatment of various other cancers. ATO has been shown to be toxic to the heart, nerves and liver, which limits its use as a broad anti-cancer agent. Our preclinical studies demonstrate that darinaparsin is considerably less toxic than ATO, particularly with regard to cardiac toxicity. In phase I and phase II clinical studies, darinaparsin has been safely administered at doses significantly higher than are approved for Trisenox[®], confirming preclinical findings.

In vitro testing of darinaparsin using the National Cancer Institute’s human cancer cell panel detected activity against cell lines derived from multiple cancers including lung, colon, brain, melanoma, ovarian, and kidney cancer. Moderate activity was detected against breast and prostate cancer. In addition to cell lines derived from solid tumors, *in vitro* testing in both the National Cancer Institute’s cancer cell panel and *in vivo* testing in a leukemia animal model demonstrated substantial activity against hematological cancers (cancers of the blood and blood-forming tissues) such as leukemia, lymphoma, myelodysplastic syndromes, and multiple myeloma. In addition, darinaparsin has potent anti-angiogenic activity as demonstrated in *in vitro* as well as *in vivo* studies.

In a murine leukemia model, darinaparsin demonstrated oral activity comparable to that achieved with systemic administration. Subsequent pharmacokinetic studies in dogs established oral bioavailability comparable to IV administration. Oral administration of an effective cancer drug would allow prolonged and potentially more effective dosing regimens.

Potential Lead Indications: lymphoma, advanced myeloma, and liver cancer Three phase II studies evaluating hematological malignancies, i.e., APL and lymphomas, advanced myeloma, and liver cancer, are planned to have accrual completed by the second half of 2008. Preliminary data from the hematological malignancies and lymphomas and advanced myeloma studies have been reported, namely, a complete response noted in a heavily pretreated patient with peripheral T-cell lymphoma and prolonged disease stabilization in advanced myeloma.

Clinical Development Plan for darinaparsin: Intravenously administered darinaparsin safety, pharmacokinetics, and drug activity has been evaluated in phase I studies. These trials have involved different patient populations, namely solid tumors, multiple myeloma and hematologic malignancies. The data reported had noted that darinaparsin was well tolerated and showed preliminary signs of activity at the recommended phase II dose. Three phase II studies evaluating hematological malignancies and lymphomas, advanced myeloma and liver cancer have started and accrual is expected to be completed by the second quarter of 2008. Based on the efficacy data generated in these studies and commercial evaluation, a lead indication is expected to be selected for further development.

In addition, an oral darinaparsin phase I program is ongoing and continues to accrue patients. Depending upon the number of cohorts required to achieve the maximum tolerated dose (“MTD”), a recommended phase II dose for the oral program is expected to be determined in the second half of 2008.

Palifosfamide (“ZIO-201”)

General. Palifosfamide, or isophosphoramidate mustard (“IPM”), is a proprietary active metabolite of the pro-drug ifosfamide. A number of patent applications have been filed in the U.S. and internationally. Ifosfamide, as well as the related drug cyclophosphamide, are alkylating agents. Cyclophosphamide is believed to be the most widely used alkylating agent in cancer therapy. Ifosfamide has been shown to be effective at high doses by itself, or in combination with other agents, in treating sarcoma and lymphoma and it is approved in the U.S. for the treatment of testicular cancer. Although ifosfamide-based treatment generally represents the standard of care for sarcoma, it is not licensed for this indication by the U.S. Food and Drug Administration.

Our preclinical studies have shown that, in animal and laboratory models, palifosfamide evidences activity against leukemia and solid tumors. These studies also indicate that palifosfamide has a better pharmacokinetic and safety profile than ifosfamide or cyclophosphamide, offering the possibility of safer and more efficacious therapy.

In addition to IPM, other metabolites of ifosfamide are produced including acrolein, which is toxic to the kidneys and bladder. The presence of acrolein mandates the administration of a protective agent called mesna, which is inconvenient to use and expensive. Chloroacetaldehyde, another metabolite of ifosfamide, is toxic to the central nervous system, causing “fuzzy brain” syndrome for which there is currently no protective measure. Similar toxicity concerns pertain to high-dose cyclophosphamide, which is widely used in bone marrow and blood cell transplantation. Because palifosfamide is the active metabolite—without acrolein or chloroacetaldehyde metabolites—the Company believes that the administration of palifosfamide (without the administration of mesna) may avoid many of the toxicities of ifosfamide without compromising efficacy.

In addition to anticipated lower toxicity, palifosfamide may have other advantages over ifosfamide and cyclophosphamide. Palifosfamide cross-links DNA differently than the active metabolite of cyclophosphamide, resulting in a different activity profile. Moreover, in some preclinical studies, palifosfamide shows activity in cisplatin-, ifosfamide- and/or cyclophosphamide-resistant cancer cells. In xenografts of human breast cancer and in a mouse leukemia model, palifosfamide has anti-tumor activity when administered orally, which is a potential additional advantage over ifosfamide and cyclophosphamide.

Potential Lead Indication for palifosfamide: Sarcoma. Sarcomas are cancers of the bone, cartilage, fat, muscle, blood vessels, or other connective or supportive tissue. There are more than 50 histological or tissue types of soft tissue sarcomas. The prognosis for patients with soft tissue sarcomas depends on several factors, including the patient’s age, size of the primary tumor, histological grade, and stage of the tumor. Factors associated with a poorer prognosis include being older than 60 years of age, having tumors larger than five centimeters, and having tumors of high-grade histology. While small, low-grade tumors are usually curable by surgery alone, the higher-grade or larger sarcomas are associated with higher local treatment failure rates and increased metastatic potential.

Palifosfamide may be a useful agent that, either alone or in combination with other agents, may deliver therapeutic activity with fewer side effects of the type that have been associated with ifosfamide. In the United States, ifosfamide is regularly included in combination regimens for the treatment of sarcomas, testicular cancers, head and neck cancer, certain types of non-Hodgkin’s lymphomas, and other solid tumors. The Company believes that palifosfamide may be able to replace ifosfamide in any or all of these combination protocols.

Clinical Development Plan for palifosfamide. The phase I studies of palifosfamide (solid tumors and advanced sarcoma) have been completed. In both of these trials, palifosfamide was given without mesna and no treatment-related hemorrhagic cystitis or CNS-toxicity was reported. Bone marrow toxicity was modest and the dose-limiting toxicity was renal toxicity. One subject with mesothelioma had stable disease for more than 13 months and two patients with sarcoma had a response of stable disease or better.

The phase II portion of the advanced sarcoma trial has completed accrual. Interim data from the study were reported in the fourth quarter of 2007. The trial indicated that palifosfamide was well tolerated, with renal toxicity being the most clinically relevant adverse event. Preliminary efficacy has been reported in a subject with liposarcoma that lasted 35 weeks. In addition, stable disease (“SD”) was observed in 44% of the evaluable subjects.

The Company has initiated a study in which palifosfamide is administered in combination with doxorubicin, which is the most commonly used agent for treating advanced sarcoma. Should no additional safety concerns emerge during the phase I portion of this study, the Company anticipates planning a pivotal sarcoma study at the end of 2008. This is planned to be preceded by an End of Phase II meeting with the FDA to discuss a Fast Track development program for advanced sarcoma, under a special protocol assessment (“SPA”).

In addition, an oral palifosfamide phase I program is planned for the near future under an IND submitted to the U.S. FDA. Depending upon the number of cohorts required to determine the maximum tolerated dose (“MTD”), a recommended phase II dose for the oral program could be achieved in mid-to-late 2008.

General. Indibulin is a novel small molecular-weight tubulin polymerization inhibitor that was acquired from Baxter Healthcare. The microtubule component, tubulin, is currently one of the best established anti-tumor targets available as a the treatment of cancer. A number of other tubulin-targeting drugs are currently on the market, including paclitaxel (Taxol[®]) and vinca alkaloids (vincristine, vinorelbine). The use of these drugs is associated with important toxicities, notably peripheral neuropathy. By contrast, no peripheral neurotoxicity has been observed to date with indibulin administration, either in preclinical testing or in phase I clinical testing. In addition, its activity as an oral formulation could offer significant convenience to patients, since no oral formulations of paclitaxel or related compounds have been developed thus far.

Indibulin has a different pharmacological profile from other tubulin inhibitors currently on the market (paclitaxel, docetaxel, vinorelbine, vincristine, and vinblastin). It binds to a unique site on tubulin and is active in multi-drug-resistant (MDR-1, MRP-1) and taxane-resistant tumors. Indibulin binding causes destabilization of microtubules *in vitro*, an effect similar to that of the vinca alkaloid family or colchicine, but opposite to that of paclitaxel and related drugs.

Testing of indibulin for *in vitro* growth inhibitory activity against a panel of human and rodent tumor-derived cell lines revealed that the drug candidate is active in a broad spectrum of cell lines derived from different organs. *In vivo*, indibulin is active in a number of xenograft and rodent tumor models. Its unique pharmacodynamic properties demonstrated in preclinical studies, as well as an excellent safety profile observed thus far in ongoing phase I studies warrant further evaluation in the clinic.

Potential Lead Indications for Indibulin: NSCLC, head and neck, prostate, colorectal, breast. At the current time, the Company anticipates pursuing a Fast Track development program following the completion of phase I/II testing that it plans to initiate this year. Registration in one of these indications would then be followed by label expansion trials. In addition, the development of an IV formulation could further expand the market opportunity.

Clinical Development Plan for Indibulin. The phase I program with indibulin will evaluate safety, pharmacokinetics (“PK”), pharmacodynamics, biomarkers, MTD, and dose limiting toxicity (“DLT”) in patients with advanced solid tumors; these trials are expected to complete in the first half of 2008. MTD has not yet been reached in phase I studies. Indibulin is well tolerated and clinical activity has been observed in patients with several histologic subtypes. This data will be used to select a phase II dose. Preclinical combination studies demonstrated synergy with erlotinib, docetaxel, and capecitabine. Two combination studies with erlotinib and capecitabine are planned to start in the first half of 2008; the phase I portion of the erlotinib combination trial has been initiated. Depending upon the number of cohorts needed to determine a recommended dose; these studies will be expanded in a phase II portion that will evaluate the efficacy of these combinations. Following a detailed review of data, additional studies will be proposed.

Competition

The development and commercialization for new products to treat cancer is highly competitive, and considerable competition from major pharmaceutical, biotechnology, and specialty cancer companies is anticipated. Many of our competitors have access to substantially more resources than does the Company, including both financial and technical. In addition, many of these companies have more experience in preclinical and clinical development, manufacturing, regulatory, and global commercialization. The Company is also competing with academic institutions, governmental agencies, and private organizations that are conducting research in the field of cancer. Competition for highly qualified employees is intense.

In addition to third-party competition, treatments for cancer that compete with our product candidates are summarized under the caption “Cancer Treatments.”

License Agreements and Intellectual Property

Our goal is to obtain, maintain, and enforce patent protection for our products, formulations, processes, methods, and other proprietary technologies in order to preserve our trade secrets and to operate without infringing upon the proprietary rights of other parties, both in the United States and in other countries. Our policy is to actively seek the broadest possible intellectual property protection for our product candidates through a combination of contractual arrangements and patents, both in the United States and abroad.

Patent and Technology License Agreement—University of Texas M. D. Anderson Cancer Center and the Texas A&M University System. On August 24, 2004, the Company entered into a Patent and Technology License Agreement with The Board of Regents of the University of Texas System, acting on behalf of The University of Texas M. D. Anderson Cancer Center and the Texas A&M University System (collectively, the “Licensors”). Under this agreement, the Company was granted an exclusive, worldwide license to rights (including rights to U.S. and foreign patent and patent applications and related improvements and know-how) for the manufacture and commercialization of two classes of organic arsenicals for human and animal use. One of these classes include darinaarsin.

In October 2004, we received a notice of allowance for U.S. Patent Application No. 10/337969, entitled “S-dimethylarsino-thiosuccinic acid S-dimethylarsino-2-thiobenzoic acid S-(dimethylarsino) glutathione as treatments for cancer.” The patent was granted on June 28, 2005 as U.S. Patent No. 6,911,471. The patent claims both therapeutic uses and pharmaceutical compositions containing a novel class of organic arsenicals, including darinaarsin, for the treatment of cancer. In February 2006, we announced a second organic arsenic patent that was issued under U.S. Patent No. 6,995,188 . This patent provides further coverage of cancer treatment using organic arsenic, including darinaarsin, in combination with other agents or therapies. Currently there are corresponding foreign applications relating to darinaarsin in various foreign countries.

As partial consideration for the license rights obtained by us, we paid the Licensors an upfront, nonrefundable \$125,000 fee and issued 250,487 shares of our common stock to The University of Texas M. D. Anderson Cancer Center, and granted it an option to purchase an additional 50,222 shares of our common stock for \$0.002 per share. The option vested and became exercisable with respect to 25% of its shares upon the Company’s filing of an Investigational New Drug (“IND”) in the fiscal year ended December 31, 2005. During the year ended December 31, 2007, an additional 50% of the option vested and became exercisable upon completion of the dosing of the last patient for both the blood and solid tumor phase I trials for darinaarsin. We recorded a \$120,492 stock compensation expense in connection with vesting of 25,111 of the options granted outside of the 2003 Stock Option Plan. The remainder of the option will vest and become exercisable with respect to 25% of the shares upon enrollment of the first patient in a multi-center pivotal clinical trial (i.e., a human clinical trial intended to provide the substantial evidence of efficacy necessary to support the filing of an approvable New Drug Application (“NDA”) for darinaarsin). As additional consideration for the license, the Licensors are entitled to receive up to an aggregate of \$4.85 million in cash payments, payable in varying amounts, upon the achievement of certain milestones, including \$100,000 that we paid upon the commencement of the phase I clinical trial for darinaarsin in May 2005 and \$250,000 upon the dosing of the first patient in the Registrant-sponsored phase II clinical trial for darinaarsin in November 2006. The Licensors are entitled to receive royalty payments from sales of a licensed product (should such a product be approved for commercial sale), as well and a portion of any fees that we may receive from a sublicensee under certain circumstances. Finally, the license agreement provided that we enter into two separate sponsored research agreements with the Licensors, each of which required that we make annual payments of \$100,000 for no less than two years following the contract’s execution. We have the exclusive right to all intellectual property rights resulting from such research pursuant to the terms of the agreements. These sponsored research agreements and any related extensions will expire in February 2008.

The agreement also contains other provisions that are customary and common to similar agreements within the industry, such as our right to sublicense our rights under the agreement. Nevertheless, if we sublicense our rights prior to the commencement of a pivotal clinical trial (i.e., a human clinical trial intended to provide the substantial evidence of efficacy necessary to support the filing of an approvable NDA), the Licensors will generally be entitled to receive a share of the payments we receive in exchange for the sublicense (subject to certain exceptions).

License Agreement with DEKK-Tec, Inc. On October 15, 2004, we entered into a license agreement with DEKK-Tec, Inc., pursuant to which we were granted an exclusive, worldwide license to the second of our lead product candidates, palifosfamide. The licensed patent estate includes two pending United States patent applications and numerous foreign counterparts.

As partial consideration for the license rights obtained by us, we paid DEKK-Tec an upfront, non-refundable \$50,000 fee. In addition, DEKK-Tec is entitled to receive cash payments in an aggregate amount of up to \$3.9 million, which are payable in varying amounts upon the occurrence of certain milestone events. The majority of these milestone payments will be creditable against future royalty payments, as referenced below. During the year ended December 31, 2006, the Company recorded a charge of \$100,000 for achieving phase II milestones. We also issued DEKK-Tec an option to purchase up to 27,616 shares of our common stock for approximately \$0.02 per share, of which 6,904 shares vested upon the execution of the license agreement. DEKK-Tec has since exercised the vested portion of the option in its entirety. The option will vest with respect to the remaining shares upon certain milestone events, culminating with final FDA approval of the first NDA submitted by us (or by our sublicensee) for palifosfamide. DEKK-Tec is entitled to receive royalty payments on the sales of palifosfamide should it be approved for commercial sale. The license agreement also contains other provisions customary and common in similar agreements within the industry.

Option and Research Agreements with Southern Research Institute ("SRI"). On December 22, 2004, we entered into an Option Agreement with SRI, pursuant to which we were granted an exclusive option to obtain an exclusive license to SRI's interest in certain intellectual property, including exclusive rights related to certain isophosphoramidate mustard analogs. Also on December 22, 2004, we entered into a Research Agreement with SRI pursuant to which we agreed to spend a sum not to exceed \$200,000 between the execution of the agreement and December 21, 2006, including a \$25,000 payment that we made simultaneously with the execution of the agreement, to fund research and development work by SRI in the field of isophosphoramidate mustard analogs. The option agreement was exercised on February 13, 2007 and the exclusively licensed patent estate includes one U.S. patent (U.S. Patent No. 6,197,760) and two foreign patents as well as corresponding patent applications in Japan and Canada. An annual payment of \$25,000 was made in 2007 for maintenance of this option agreement.

Asset Purchase of Indibulin from Baxter Healthcare Corporation. On November 3, 2006, the Company signed a definitive Asset Purchase Agreement and License Agreement to acquire indibulin (and license rights to nanosuspension technology) from affiliates of Baxter Healthcare Corporation. The terms of the agreement include an upfront cash payment of approximately \$1.125 million, which has been expensed as purchased research and development. In the year ended December 31, 2006, \$15,000 was paid for annual patent and license maintenance fee, and \$100,000 was paid for existing inventory. In addition to the upfront payments, there will be follow-on milestone cash payments that could amount to approximately \$8 million in the aggregate and royalties on net sales typical of a product at this stage of development. During the year ended December 31, 2007, we paid \$625,000 in milestone payments for the successful U.S. Investigational New Drug ("IND") application for indibulin and also paid an additional \$15,000 for the annual patent and license maintenance fee. The purchase price includes the entire indibulin intellectual property portfolio as well as existing drug substance and capsule inventories.

The patent estate related to indibulin currently includes one U.S. patent (U.S. Patent No. 6,008,231) and eighteen (18) foreign patents that cover the indibulin molecule, as well as numerous corresponding pending foreign applications. In addition, there are two U.S. Patents (U.S. Patent Nos. 6,232,327 and 6,693,119) and thirty-one (31) foreign patents covering methods of using indibulin as a cancer therapeutic, as well as four pending U.S. and numerous corresponding pending foreign applications.

Other Intellectual Property Rights and Protection. We depend upon the skills, knowledge, and experience of our scientific and technical personnel, as well as those of our advisors, consultants, and other contractors, none of which is patentable. To help protect proprietary know-how, which is not patentable, and for inventions for which patents may be difficult to enforce, we currently rely, and in the future will continue to rely, on trade secret protection and confidentiality agreements to protect our interests. To this end, we generally require employees, consultants, advisors and other contractors to enter into confidentiality agreements that prohibit the disclosure of confidential information and, where applicable, require disclosure and assignment to us of the ideas, developments, discoveries and inventions important to our business.

Governmental Regulation

The research, development, testing, manufacture, labeling, promotion, advertising, distribution, and marketing, among other things, of our products are extensively regulated by governmental authorities in the United States and other countries. In the United States, the FDA regulates drugs under the Federal Food, Drug, and Cosmetic Act ("FDCA") and its implementing regulations. Failure to comply with the applicable U.S. requirements may subject us to administrative or judicial sanctions, such as FDA refusal to approve pending New Drug Applications ("NDAs"), warning letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, and/or criminal prosecution.

Drug Approval Process. None of our drugs may be marketed in the U.S. until the drug has received FDA approval. The steps required before a drug may be marketed in the U.S. include:

- Preclinical laboratory tests, animal studies, and formulation studies;
- Submission to the FDA of an IND for human clinical testing, which must become effective before human clinical trials may begin;
- Adequate and well-controlled human clinical trials to establish the safety and efficacy of the drug for each indication;
- Submission to the FDA of an NDA;
- Satisfactory completion of an FDA inspection of the manufacturing facility or facilities at which the drug is produced to assess compliance with current good manufacturing practices, or “cGMPs”; and
- FDA review and approval of the NDA.

Preclinical tests include laboratory evaluation of product chemistry, toxicity, and formulation, as well as animal studies. The conduct of the preclinical tests and formulation of the compounds for testing must comply with federal regulations and requirements. The results of the preclinical tests, together with manufacturing information and analytical data, are submitted to the FDA as part of an IND Application, which must become effective before human clinical trials may begin. An IND automatically takes effect 30 days after receipt by the FDA, unless before that time the FDA raises safety concerns or questions about issues such as the design of the trials as outlined in the IND. In such a case, the IND sponsor and the FDA must resolve any outstanding FDA concerns or questions before clinical trials may proceed. The Company cannot be certain that submission of an IND will result in the FDA allowing a clinical trial(s) to be initiated.

Clinical trials involve the administration of an investigational drug to human subjects under the supervision of qualified investigators. Clinical trials are conducted according to protocols that detail the study objectives, the parameters to be used in monitoring participants' safety, and the effectiveness criteria by which the investigational drug will be evaluated. Each protocol must be submitted to the FDA as part of the IND.

Clinical trials are typically conducted in three sequential phases, but the phases may overlap. The study protocol and informed consent information for study subjects in a clinical trial must also be approved by an Institutional Review Board for each institution where the trial will be conducted. Study subjects must sign an informed consent form before participating in a clinical trial. Phase I usually involves the initial introduction of the investigational drug into people to evaluate its short-term safety, dosage tolerance, metabolism, pharmacokinetics, and pharmacologic actions and, if possible, to gain an early indication of its effectiveness. Phase II usually involves trials in a limited patient population in order to (1) evaluate dosage tolerance and appropriate dosage; (2) identify possible adverse effects and safety risks; and (3) evaluate preliminarily the efficacy of the drug for specific indications. Phase III trials usually continue to evaluate clinical efficacy and further test for safety by using the drug in its final form in an expanded patient population. There can be no assurance that phase I, phase II, or phase III testing will be completed successfully within any specified period of time, if at all. Furthermore, the sponsoring company or the FDA may suspend clinical trials at any time on various grounds, including a finding that the subjects or patients are being exposed to an unacceptable health risk.

The FDCA permits the FDA and the IND sponsor to agree in writing on the design and size of clinical studies intended to form the primary basis of a claim of effectiveness in an NDA application. This process is known as Special Protocol Assessment ("SPA") and can be a somewhat lengthy process. An agreement may not be changed by the sponsor or FDA after the trial begins, *except* (1) with the written agreement of the sponsor and the FDA, or (2) if the director of the FDA reviewing division determines that "a substantial scientific issue essential to determining the safety or effectiveness of the drug" was identified after the testing began.

Assuming successful completion of the required clinical testing, the results of the preclinical studies and of the clinical studies, together with other detailed information, including information on the manufacture and composition of the drug, are submitted to the FDA in the form of an NDA requesting approval to market the product for one or more indications. The testing and approval process requires substantial time, effort, and financial resources. The FDA reviews the application and may deem it to be inadequate to support the registration, and companies cannot be sure that any approval will be granted on a timely basis, if at all. The FDA may also refer the application to the appropriate advisory committee, typically a panel of clinicians, for review, evaluation and a recommendation as to whether the application should be approved. The FDA is not bound by the recommendations of the advisory committee.

The NDA application is the vehicle through which investigational drug sponsors formally propose that the FDA approve a new pharmaceutical agent to be marketed and sold in the U.S. The data gathered during the animal studies and human clinical trials of an IND become part of the NDA. The goals of the NDA are to provide enough information to permit FDA to reach the following key decisions:

- Is the drug safe and effective in its proposed use(s), and do the benefits of the drug outweigh the risks?
- Is the drug's proposed labeling (package insert) is appropriate, and what it should contain?
- Are the methods used in manufacturing the drug and the controls used to maintain the drug's quality adequate to preserve the drug's identity, strength, quality, and purity?

The FDA has various programs including Exploratory INDs (also referred to as “phase 0”), orphan drug, fast track, priority review, and accelerated approval, which are intended to expedite or simplify the process for developing and reviewing drugs, and/or provide for approval on the basis surrogate endpoints, or provide financial incentives and market exclusivity. Generally, drugs that may be eligible for one or more of these programs are those for serious or life-threatening conditions, those with the potential to address unmet medical needs, and those that provide meaningful benefit over existing treatments. A company cannot be certain that any of its investigational drugs will qualify for any of these programs, or that, if a drug does qualify, the review time will be reduced.

Section 505(b)(2) of the FDCA allows the FDA to approve a follow-on drug on the basis of data in the scientific literature or a prior FDA approval of an NDA for a related drug. Specifically, a 505(b)(2) application is one for which one or more of the investigations relied upon by the applicant for approval were not conducted by or for the applicant, and for which the applicant has not obtained a right of reference or use from the person by or for whom the investigations were conducted. A 505(b)(2) application may be submitted for a new drug product when some part of the data necessary for approval are derived from studies not conducted by or for the applicant and to which the applicant has not obtained a right of reference. For a new drug, these data are likely to be derived from published studies rather than FDA’s previous finding of safety and effectiveness of a drug. For changes to a previously approved drug product, an application may rely on the Agency’s finding of safety and effectiveness of the previously approved product, coupled with the information needed to support the change from the approved product. The additional information could be new studies conducted by the applicant or published data. This use of Section 505(b)(2), described in the regulations at 21 CFR 314.54, was intended to encourage innovation without creating duplicate work, and reflects the principle that it is wasteful and unnecessary to carry out studies to demonstrate what is already known about a drug. This procedure potentially makes it easier for generic drug manufacturers to obtain rapid approval of new forms of drugs based on proprietary data of the original drug manufacturer.

Before approving an NDA, the FDA usually will inspect the facility or the facilities at which the drug is manufactured and will not approve the product unless Good Manufacturing Practice (“cGMP”) compliance is satisfactory. If the FDA evaluates the NDA and the manufacturing facilities as acceptable, the FDA may issue an approval letter, or in many cases, an approvable letter followed by an approval letter. Both letters usually contain a number of conditions that must be met in order to secure final approval of the NDA. When and if those conditions have met with the FDA’s satisfaction, the FDA will issue an approval letter. The approval letter authorizes commercial marketing of the drug for specific indications. As a condition of NDA approval, the FDA may require post-marketing testing and surveillance to monitor the drug’s safety or efficacy, or impose other conditions.

After approval, certain changes to the approved drug product, such as adding new indications, initiating certain manufacturing changes, or making certain additional labeling claims, are subject to further FDA review and approval. Before a company can market a drug product for any additional indication(s), it must obtain additional approval from FDA. Obtaining approval for a new indication generally requires that additional clinical studies be conducted. A company cannot be sure that any additional approval for new indications for any product candidate will be approved on a timely basis, or at all.

Post-approval Requirements. Often times, even after a drug has been approved by the FDA for sale, the FDA may require that certain post-approval requirements be satisfied, including the conduct of additional clinical studies. If such post-approval conditions are not satisfied, the FDA may withdraw its approval of the drug. In addition, holders of an approved NDA are required to: (1) report certain adverse reactions to the FDA; (2) comply with certain requirements concerning advertising and promotional labeling for their products; and (3) continue to have quality control and manufacturing procedures conform to cGMP. The FDA periodically inspects the sponsor's records relating to safety reporting and/or manufacturing facilities; this latter effort includes assessment of cGMP compliance. Accordingly, manufacturers must continue to expend time, money, and effort in the area of production and quality control to maintain cGMP compliance. We intend to use third-party manufacturers to produce our products in clinical and commercial quantities, and future FDA inspections may identify compliance issues at the facilities of our contract manufacturers that may disrupt production or distribution, or require substantial resources to correct. In addition, discovery of problems with a product after approval may result in restrictions on a product, manufacturer, or holder of an approved NDA, including withdrawal of the product from the market.

Employees

As of the date of this report, the Company has 42 employees all of which are full time. Several additional employees are expected to be hired prior to the end of 2008.

Corporate Developments

Reverse Stock Split

On August 24, 2005, we (EasyWeb, Inc.) effected a 1-for-40 share combination (i.e., reverse stock split) of our capital stock. The share combination was approved by our stockholders at a special stockholder meeting held on February 28, 2005. As a result of the share combination, we had 189,922 shares of common stock outstanding immediately prior to the merger transaction with ZIOPHARM, Inc., which is discussed immediately below.

Acquisition of ZIOPHARM, Inc.

Pursuant to an Agreement and Plan of Merger dated August 3, 2005 (the "Merger Agreement") by and among us, ZIO Acquisition Corp., a Delaware corporation and our wholly owned subsidiary, and ZIOPHARM, Inc., a Delaware corporation, ZIO Acquisition Corp. merged with and into ZIOPHARM, Inc., with ZIOPHARM, Inc. remaining as the surviving corporation and our wholly-owned subsidiary. This transaction is referred to throughout this report as the "Merger." The Merger was effective as of September 13, 2005, upon the filing of a certificate of merger with the Delaware Secretary of State. In consideration for their shares of ZIOPHARM, Inc. capital stock and in accordance with the Merger Agreement, the stockholders of ZIOPHARM, Inc. received an aggregate of 6,967,941 shares or approximately 97.3% of our common stock. In addition, all securities convertible into and exercisable for shares of ZIOPHARM, Inc. capital stock outstanding immediately prior to the Merger were cancelled, and the holders thereof received similar securities convertible into an aggregate of 1,366,846 shares of our common stock.

All share and per-share data in this report have been adjusted to give effect to the conversions effected as part of the Merger.

The Merger Agreement was filed as Exhibit 10.1 to our current report on Form 8-K filed with the Securities and Exchange Commission on August 9, 2005, and is incorporated herein by reference. The foregoing description of the Merger Agreement and the Merger do not purport to be complete and is qualified in its entirety by reference to the Merger Agreement.

On September 13, 2005, our board of directors approved a transaction pursuant to which ZIOPHARM, Inc. merged with and into us, leaving us as the surviving corporation. In connection with this parent-subsiidiary merger, we relinquished our prior corporate name, EasyWeb, Inc., and assumed in its place the name "ZIOPHARM Oncology, Inc." The parent-subsiidiary merger and name change became effective on September 14, 2005.

Changes in Board of Directors

At the effective time of the Merger, the board of directors was reconstituted by the appointment of Dr. Jonathan Lewis, Richard Bagley, Dr. Murray Brennan, James Cannon, Senator Wyche Fowler, Jr., Gary S. Fragin, Timothy McInerney, and Dr. Michael Weiser as directors (all of whom were directors of ZIOPHARM, Inc. immediately prior to the Merger) and with the resignations of David C. Olson and David Floor from their previous positions as our directors.

RISK FACTORS

An investment in our common stock is very risky. In addition to the other information in this Annual Report on Form 10-KSB, you should consider carefully the following risk factors in evaluating us and our business. If any of the events described in the following risk factors were to occur, our business, financial condition or result of our operations would suffer and, in that event, the trading price of our common stock could decline. Therefore, we urge you to carefully review this entire 10-KSB and consider the following risk factors:

Risks Related to our Business

We may not be able to commercialize any products, generate significant revenues, or attain profitability.

We have never generated revenue and have incurred significant net losses in each year since our inception. For the year ended December 31, 2007, we had a net loss of \$26.6 million and we had incurred approximately \$59.8 million of cumulative net losses since our inception in 2003. We expect to continue to incur significant operating and capital expenditures and anticipate that our expenses will increase substantially in the foreseeable future as we:

- Continue to undertake preclinical development and clinical trials for product candidates;
- Scale-up the formulation and manufacturing of our product candidates;
- Seek regulatory approvals for product candidates;
- Implement additional internal systems and infrastructure; and
- Hire additional personnel.

Because we expect to incur losses for the foreseeable future, we will need to generate significant revenues in order to achieve and maintain profitability. Even if we succeed in developing and commercializing one or more of our product candidates, for which success is not assured, we may not be able to generate significant revenues. If we do generate significant revenues, we may never achieve or maintain profitability. Our failure to achieve or maintain profitability could negatively impact the trading price of our common stock.

If we are not able to successfully develop and commercialize our product candidates, we may not generate sufficient revenues to continue our business operations.

To date, none of our product candidates have been approved for commercial sale in any country. The process to develop, obtain regulatory approval for, and commercialize potential drug candidates is long, complex, and costly. Unless and until we receive approval from the FDA and/or other regulatory authorities for our product candidates, we cannot sell our drugs and will not have product revenues. Even if we obtain regulatory approval for one or more of our product candidates, if we are unable to successfully commercialize our products, we may not be able to generate sufficient revenues to continue our business without raising significant additional capital, which may not be available.

We may need to raise additional capital to fund our operations. If we are unable to raise additional capital when needed, we may have to discontinue our product development programs. The manner in which we raise any additional funds may affect the value of your investment in our common stock.

As of December 31, 2007, we had incurred approximately \$59.8 million of cumulative net losses and had approximately \$35.0 million of cash, cash equivalents, and short-term investments. Currently, we expect that we will have sufficient cash to fund our operations late into the second quarter of 2009. Although we expect our cash on-hand to fund our operations into the second quarter of 2009, changes may occur that would consume our existing capital prior to that time, including the progress of our research and development efforts, changes in governmental regulation, and acquisitions of additional product candidates.

Currently, we have no committed sources of additional capital. We do not know whether additional financing will be available on terms favorable to us when needed, if at all. If we fail to advance our current product candidates to later-stage clinical trials, successfully commercialize one or more of our product candidates, or acquire new product candidates for development, we may have difficulty obtaining additional financing. To the extent that we raise additional capital by issuing equity securities, our stockholders may experience dilution. We may grant future investors rights superior to those of our common stockholders. If we raise additional funds through collaborations and licensing arrangements, it may be necessary to relinquish some rights to our technologies, product candidates or products, or grant licenses on terms that are not favorable to us. If we raise additional funds by incurring debt, we could incur significant interest expense and become subject to covenants in the related transaction documentation that could affect the manner in which we conduct our business.

If we do not succeed in raising additional funds on acceptable terms, we may be unable to complete planned preclinical and clinical trials or obtain approval of any product candidates from the FDA and other regulatory authorities. In addition, we could be forced to discontinue product development, reduce or forego sales and marketing efforts, forego attractive business opportunities, or discontinue our operations altogether.

We have a limited operating history upon which to base an investment decision.

We are a development-stage company that was incorporated in September 2003. To date, we have not demonstrated an ability to perform the functions necessary for the successful commercialization of any product candidates. The successful commercialization of any product candidates will require us to perform a variety of functions, including:

- Continuing to undertake preclinical development and clinical trials;
- Participating in regulatory approval processes;
- Formulating and manufacturing products; and
- Conducting sales and marketing activities.

Our operations have been limited to organizing and staffing our Company, acquiring, developing, and securing our proprietary product candidates, and undertaking preclinical and clinical trials of our product candidates darinparsin, palifosfamide, and indibulin. These operations provide a limited basis for you to assess our ability to commercialize our product candidates and the advisability of investing in our securities.

The success of our growth strategy depends upon our ability to identify, select, and acquire additional pharmaceutical product candidates for development and commercialization. Because we currently neither have nor intend to establish internal research capabilities, we are dependent upon pharmaceutical and biotechnology companies and academic and other researchers to sell or license us their product candidates..

Proposing, negotiating, and implementing an economically viable product acquisition or license is a lengthy and complex process. We compete for partnering arrangements and license agreements with pharmaceutical, biopharmaceutical, and biotechnology companies, many of which have significantly more experience than we do, and have significantly more financial resources. Our competitors may have stronger relationships with certain third parties including academic research institutions, with whom we are interested in collaborating and may have, therefore, a competitive advantage in entering into partnering arrangements with those third parties. We may not be able to acquire rights to additional product candidates on terms that we find acceptable, or at all.

We expect that any product candidate to which we acquire rights will require significant additional development and other efforts prior to commercial sale, including extensive clinical testing and approval by the FDA and applicable foreign regulatory authorities. All drug product candidates are subject to the risks of failure inherent in pharmaceutical product development, including the possibility that the product candidate will not be shown to be sufficiently safe or effective for approval by regulatory authorities. Even if our product candidates are approved, they may not be economically manufactured or produced, or be successfully commercialized.

We actively evaluate additional product candidates to acquire for development. Such additional product candidates, if any, could significantly increase our capital requirements and place further strain on the time of our existing personnel, which may delay or otherwise adversely affect the development of our existing product candidates. We must manage our development efforts and clinical trials effectively, and hire, train and integrate additional management, administrative, and sales and marketing personnel. We may not be able to accomplish these tasks, and our failure to accomplish any of them could prevent us from successfully growing our Company.

We may not be able to successfully manage our growth.

In the future, if we are able to advance our product candidates to the point of, and thereafter through, clinical trials, we will need to expand our development, regulatory, manufacturing, marketing and sales capabilities or contract with third parties to provide for these capabilities. Any future growth will place a significant strain on our management and on our administrative, operational, and financial resources. Therefore, our future financial performance and our ability to commercialize our product candidates and to compete effectively will depend, in part, on our ability to manage any future growth effectively. To manage this growth, we must expand our facilities, augment our operational, financial and management systems, and hire and train additional qualified personnel. If we are unable to manage our growth effectively, our business may be harmed.

Our business will subject us to the risk of liability claims associated with the use of hazardous materials and chemicals.

Our contract research and development activities may involve the controlled use of hazardous materials and chemicals. Although we believe that our safety procedures for using, storing, handling and disposing of these materials comply with federal, state and local laws and regulations, we cannot completely eliminate the risk of accidental injury or contamination from these materials. In the event of such an accident, we could be held liable for any resulting damages and any liability could have a materially adverse effect on our business, financial condition, and results of operations. In addition, the federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of hazardous or radioactive materials and waste products may require our contractors to incur substantial compliance costs that could materially adversely affect our business, financial condition, and results of operations.

We rely on key executive officers and scientific and medical advisors, and their knowledge of our business and technical expertise would be difficult to replace.

We are highly dependent on Dr. Jonathan Lewis, our Chief Executive Officer, Richard E. Bagley, our Chief Operating Officer and Chief Financial Officer, and our principal scientific, regulatory, and medical advisors. Dr. Lewis' and Mr. Bagley's employment are governed by written employment agreements that provide for terms that expire in January 2011 and July 2008, respectively. Dr. Lewis and Mr. Bagley may terminate their employment with us at any time, subject, however, to certain non-compete and non-solicitation covenants. The loss of the technical knowledge and management and industry expertise of Dr. Lewis and Mr. Bagley, or any of our other key personnel, could result in delays in product development, loss of customers and sales, and diversion of management resources, which could adversely affect our operating results. We do not carry "key person" life insurance policies on any of our officers or key employees.

If we are unable to hire additional qualified personnel, our ability to grow our business may be harmed.

We will need to hire additional qualified personnel with expertise in preclinical and clinical research and testing, government regulation, formulation and manufacturing, and eventually, sales and marketing. We compete for qualified individuals with numerous biopharmaceutical companies, universities, and other research institutions. Competition for such individuals is intense and we cannot be certain that our search for such personnel will be successful. Attracting and retaining qualified personnel will be critical to our success. If we are unable to hire additional qualified personnel, our ability to grow our business may be harmed.

We may incur substantial liabilities and may be required to limit commercialization of our products in response to product liability lawsuits.

The testing and marketing of medical products entail an inherent risk of product liability. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our products, if approved. Even a successful defense would require significant financial and management resources. Regardless of the merit or eventual outcome, liability claims may result in:

- Decreased demand for our product candidates;

- Injury to our reputation;
- Withdrawal of clinical trial participants;
- Withdrawal of prior governmental approvals;
- Costs of related litigation;
- Substantial monetary awards to patients;
- Product recalls;
- Loss of revenue; and
- The inability to commercialize our product candidates.

We currently carry clinical trial insurance and product liability insurance. However, our inability to renew our policies or to obtain sufficient insurance at an acceptable cost could prevent or inhibit the commercialization of pharmaceutical products that we develop, alone or with collaborators.

Risks Related to the Clinical Testing, Regulatory Approval and Manufacturing of Our Product Candidates

If we are unable to obtain the necessary U.S. or worldwide regulatory approvals to commercialize any product candidate, our business will suffer.

We may not be able to obtain the approvals necessary to commercialize our product candidates, or any product candidate that we may acquire or develop in the future for commercial sale. We will need FDA approval to commercialize our product candidates in the U.S. and approvals from regulatory authorities in foreign jurisdictions equivalent to the FDA to commercialize our product candidates in those jurisdictions. In order to obtain FDA approval of any product candidate, we must submit to the FDA a New Drug Application, demonstrating that the product candidate is safe for humans and effective for its intended use. This demonstration requires significant research and animal tests, which are referred to as preclinical studies, as well as human tests, which are referred to as clinical trials. Satisfaction of the FDA's regulatory requirements typically takes many years, depending upon the type, complexity, and novelty of the product candidate, and will require substantial resources for research, development, and testing. We cannot predict whether our research, development, and clinical approaches will result in drugs that the FDA will consider safe for humans and effective for their intended uses. The FDA has substantial discretion in the drug approval process and may require us to conduct additional preclinical and clinical testing or to perform post-marketing studies. The approval process may also be delayed by changes in government regulation, future legislation, or administrative action or changes in FDA policy that occur prior to or during our regulatory review. Delays in obtaining regulatory approvals may:

- Delay commercialization of, and our ability to derive product revenues from, our product candidates;
- Impose costly procedures on us; and
- Diminish any competitive advantages that we may otherwise enjoy.

Even if we comply with all FDA requests, the FDA may ultimately reject one or more of our NDAs. We cannot be sure that we will ever obtain regulatory clearance for any of our product candidates. Failure to obtain FDA approval for our product candidates will severely undermine our business by leaving us without a saleable product, and therefore without any potential revenue source, until another product candidate can be developed. There is no guarantee that we will ever be able to develop or acquire another product candidate or that we will obtain FDA approval if we are able to do so.

In foreign jurisdictions, we similarly must receive approval from applicable regulatory authorities before we can commercialize any drugs. Foreign regulatory approval processes generally include all of the risks associated with the FDA approval procedures described above.

Our product candidates are in early stages of clinical trials, which are very expensive and time-consuming. We cannot be certain when we will be able to file an NDA with the FDA and any failure or delay in completing clinical trials for our product candidates could harm our business.

Our product candidates are in early stages of development and require extensive clinical testing. Notwithstanding our current clinical trial plans for each of our existing product candidates, we may not be able to commence additional trials or see results from these trials within our anticipated timelines. As such, we cannot predict with any certainty if or when we might submit an NDA for regulatory approval of our product candidates or whether such an NDA will be accepted. Because we do not anticipate generating revenues unless and until we submit one or more NDAs and thereafter obtain requisite FDA approvals, the timing of our NDA submissions and FDA determinations regarding approval thereof, will directly affect if and when we are able to generate revenues.

Clinical trials are very expensive, time-consuming, and difficult to design and implement.

Human clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. The clinical trial process itself is also time consuming. We estimate that clinical trials of our product candidates will take at least several years to complete. Furthermore, failure can occur at any stage of the trials, and we could encounter problems that cause us to abandon or repeat clinical trials. The commencement and completion of clinical trials may be delayed by several factors, including:

- Unforeseen safety issues;
- Determination of dosing issues;
- Lack of effectiveness during clinical trials;
- Slower than expected rates of patient recruitment;
- Inability to monitor patients adequately during or after treatment; and
- Inability or unwillingness of medical investigators to follow our clinical protocols.

We are hopeful that we may be able to obtain “Fast Track” and or “Orphan Drug” status from the FDA for one or more of our product candidates. Fast Track allows the FDA to facilitate development and expedite review of drugs that treat serious and life-threatening conditions so that an approved product can reach the market expeditiously. Fast Track status does not apply to a product alone, but applies to a combination of a product and the specific indications for which it is being studied. Therefore, it is a drug’s development program for a specific indication that receives Fast Track designation. Orphan Drug status promotes the development of products that demonstrate the promise for the diagnosis and treatment of one disease or condition and affords certain financial and market protection benefits to successful applicants. However, there is no guarantee that any of our product candidates will be granted Fast Track or Orphan Drug status by the FDA or that, even if such product candidate is granted such status, the product candidate’s clinical development and regulatory approval process will not be delayed or will be successful.

In addition, we or the FDA may suspend our clinical trials at any time if it appears that we are exposing participants to unacceptable health risks or if the FDA finds deficiencies in our IND submission or in the conduct of these trials. Therefore, we cannot predict with any certainty the schedule for future clinical trials.

The results of our clinical trials may not support our product candidate claims.

Even if our clinical trials are completed as planned, we cannot be certain that their results will support approval of our product candidates. Success in preclinical testing and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be certain that the results of later clinical trials will replicate the results of prior clinical trials and preclinical testing. The clinical trial process may fail to demonstrate that our product candidates are safe for humans and effective for the indicated uses. This failure would cause us to abandon a product candidate and may delay development of other product candidates. Any delay in, or termination of, our clinical trials will delay the filing of our NDAs with the FDA and, ultimately, our ability to commercialize our product candidates and generate product revenues. In addition, our clinical trials involve small patient populations. Because of the small sample size, the results of these clinical trials may not be indicative of future results.

Even if the FDA approves our product candidates, physicians and patients may not accept and use them. Acceptance and use of our products will depend upon a number of factors including:

- Perceptions by members of the health care community, including physicians, regarding the safety and effectiveness of our drugs;
- Cost-effectiveness of our products relative to competing products;
- Availability of reimbursement for our products from government or other healthcare payers; and

- Effectiveness of marketing and distribution efforts by us and our licensees and distributors, if any.

Because we expect sales of our current product candidates, if approved, to generate substantially all of our product revenues for the foreseeable future, the failure of a drug to find market acceptance would harm our business and could require us to seek additional financing in order to fund the development of future product candidates.

Because we are dependent upon clinical research institutions and other contractors for clinical testing and for research and development activities, the results of our clinical trials and such research activities are, to a certain extent, beyond our control.

We materially rely upon independent investigators and collaborators, such as universities and medical institutions, to conduct our preclinical and clinical trials under agreements with us. These collaborators are not our employees and we cannot control the amount or timing of resources that they devote to our programs. These investigators may not assign as great a priority to our programs or pursue them as diligently as we would if we were undertaking such programs ourselves. If outside collaborators fail to devote sufficient time and resources to our drug development programs, or if their performance is substandard, the approval of our FDA applications, if any, and our introduction of new drugs, if any, will be delayed. These collaborators may also have relationships with other commercial entities, some of whom may compete with us. If our collaborators assist our competitors to our detriment, our competitive position would be harmed.

Our reliance on third parties to formulate and manufacture our product candidates exposes us to a number of risks that may delay the development, regulatory approval and commercialization of our products or result in higher product costs.

We do not have experience in drug formulation or manufacturing and do not intend to establish our own manufacturing facilities. We lack the resources and expertise to formulate or manufacture our own product candidates. We currently are contracting for the manufacture of our product candidates. We intend to contract with one or more manufacturers to manufacture, supply, store, and distribute drug supplies for our clinical trials. If a product candidate we develop or acquire in the future receives FDA approval, we will rely on one or more third-party contractors to manufacture our drugs. Our anticipated future reliance on a limited number of third-party manufacturers exposes us to the following risks:

- We may be unable to identify manufacturers on acceptable terms or at all because the number of potential manufacturers is limited, and the FDA must approve any replacement contractor. This approval would require new testing and compliance inspections. In addition, a new manufacturer would have to be educated in, or develop substantially equivalent processes for, production of our products after receipt of FDA approval, if any.
- Our third-party manufacturers might be unable to formulate and manufacture our drugs in the volume and of the quality required to meet our clinical needs and commercial needs, if any.
- Our future contract manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store, and distribute our products.
- Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA, the Drug Enforcement Administration (the “DEA”), and corresponding state agencies to ensure strict compliance with good manufacturing practices and other government regulations and corresponding foreign standards. We do not have control over third-party manufacturers’ compliance with these regulations and standards.
- If any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the intellectual property rights to the innovation.

Each of these risks could delay our clinical trials, the approval, if any, of our product candidates by the FDA or the commercialization of our product candidates or result in higher costs or deprive us of potential product revenues.

Risks Related to Our Ability to Commercialize Our Product Candidates

If we are unable either to create sales, marketing and distribution capabilities or enter into agreements with third parties to perform these functions, we will be unable to commercialize our product candidates successfully.

We currently have no marketing, sales, or distribution capabilities. If and when we become reasonably certain that we will be able to commercialize our current or future products, we anticipate allocating resources to the marketing, sales and distribution of our proposed products in North America; however, we cannot assure that we will be able to market, sell, and distribute our products successfully. Our future success also may depend, in part, on our ability to enter into and maintain collaborative relationships for such capabilities and to encourage the collaborator's strategic interest in the products under development, and such collaborator's ability to successfully market and sell any such products. Although we intend to pursue certain collaborative arrangements regarding the sale and marketing of our products, there are no assurances that we will be able to establish or maintain collaborative arrangements or, if we are able to do so, whether we would be able to conduct our own sales efforts. There can also be no assurance that we will be able to establish or maintain relationships with third-party collaborators or develop in-house sales and distribution capabilities. To the extent that we depend on third parties for marketing and distribution, any revenues we receive will depend upon the efforts of such third parties, and there can be no assurance that such efforts will be successful. In addition, there can also be no assurance that we will be able to market and sell our products in the United States or overseas.

If we are not able to partner with a third party and are not successful in recruiting sales and marketing personnel or in building a sales and marketing infrastructure, we will have difficulty commercializing our product candidates, which would harm our business. If we rely on pharmaceutical or biotechnology companies with established distribution systems to market our products, we will need to establish and maintain partnership arrangements, and we may not be able to enter into these arrangements on acceptable terms or at all. To the extent that we enter into co-promotion or other arrangements, any revenues we receive will depend upon the efforts of third parties that may not be successful and that will be only partially in our control.

If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer.

The market for our product candidates is characterized by intense competition and rapid technological advances. If a product candidate receives FDA approval, it will compete with a number of existing and future drugs and therapies developed, manufactured and marketed by others. Existing or future competing products may provide greater therapeutic convenience or clinical or other benefits for a specific indication than our products, or may offer comparable performance at a lower cost. If our products fail to capture and maintain market share, we may not achieve sufficient product revenues and our business will suffer.

We will compete against fully integrated pharmaceutical companies and smaller companies that are collaborating with larger pharmaceutical companies, academic institutions, government agencies and other public and private research organizations. Many of these competitors have products already approved or in development. In addition, many of these competitors, either alone or together with their collaborative partners, operate larger research and development programs or have substantially greater financial resources than we do, as well as significantly greater experience in:

- Developing drugs;
- Undertaking preclinical testing and human clinical trials;
- Obtaining FDA and other regulatory approvals of drugs;
- Formulating and manufacturing drugs; and
- Launching, marketing, and selling drugs.

If physicians and patients do not accept and use our product candidates, our ability to generate revenue from sales of our products will be materially impaired.

Even if the FDA approves our product candidates, physicians and patients may not accept and use them. Acceptance and use of our products will depend upon a number of factors including:

- Perceptions by members of the health care community, including physicians, about the safety and effectiveness of our drugs;
- Pharmacological benefit and cost-effectiveness of our products relative to competing products;
- Availability of reimbursement for our products from government or other healthcare payors;
- Effectiveness of marketing and distribution efforts by us and our licensees and distributors, if any; and
- The price at which we sell our products.

Our ability to generate product revenues will be diminished if our drugs sell for inadequate prices or patients are unable to obtain adequate levels of reimbursement.

Our ability to commercialize our drugs, alone or with collaborators, will depend in part on the extent to which reimbursement will be available from:

- Government and health administration authorities;
- Private health maintenance organizations and health insurers; and
- Other healthcare payers.

Government and other healthcare payers increasingly attempt to contain healthcare costs by limiting both coverage and the level of reimbursement for drugs. As a result, we cannot provide any assurances that third-party payors will provide adequate coverage of and reimbursement for any of our product candidates. If we are unable to obtain adequate coverage of and payment levels for our product candidates from third-party payors, physicians may limit how much or under what circumstances they will prescribe or administer them and patients may decline to purchase them. This in turn could affect our ability to successfully commercialize our products and impact our profitability and future success.

In both the United States and certain foreign jurisdictions, there have been a number of legislative and regulatory policies and proposals in recent years to change the healthcare system in ways that could impact our ability to sell our products profitably. On December 8, 2003, President Bush signed into law the Medicare Prescription Drug, Improvement and Modernization Act of 2003 (“MMA”), which contains, among other changes to the law, a wide variety of changes that have and will impact Medicare reimbursement of pharmaceuticals to physicians and hospitals.

There also likely will continue to be legislative and regulatory proposals that could bring about significant changes in the healthcare industry. We cannot predict what form those changes might take or the impact on our business of any legislation or regulations that may be adopted in the future. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our products.

In addition, in many foreign countries, particularly the countries of the European Union, the pricing of prescription drugs is subject to government control. We may face competition for our product candidates from lower-priced products in foreign countries that have placed price controls on pharmaceutical products. In addition, there may be importation of foreign products that compete with our own products, which could negatively impact our profitability.

Risks Related to Our Intellectual Property

If we fail to adequately protect or enforce our intellectual property rights or secure rights to patents of others, the value of our intellectual property rights would diminish.

Our success, competitive position, and future revenues will depend in part on our ability and the abilities of our licensors to obtain and maintain patent protection for our products, methods, processes and other technologies, to preserve our trade secrets, to prevent third parties from infringing on our proprietary rights, and to operate without infringing the proprietary rights of third parties.

To date, we have exclusive rights to certain U.S. and foreign intellectual property. We anticipate filing additional patent applications both in the U.S. and in other countries, as appropriate. However, we cannot predict:

- The degree and range of protection any patents will afford us against competitors, including whether third parties will find ways to invalidate or otherwise circumvent our patents;
- If and when patents will be issued;
- Whether or not others will obtain patents claiming aspects similar to those covered by our patents and patent applications; or
- Whether we will need to initiate litigation or administrative proceedings that may be costly whether we win or lose.

Our success also depends upon the skills, knowledge, and experience of our scientific and technical personnel, our consultants and advisors, as well as our licensors and contractors. To help protect our proprietary know-how and our inventions for which patents may be unobtainable or difficult to obtain, we rely on trade secret protection and confidentiality agreements. To this end, it is our general policy to require our employees, consultants, advisors, and contractors to enter into agreements that prohibit the disclosure of confidential information and, where applicable, require disclosure and assignment to us of the ideas, developments, discoveries, and inventions important to our business. These agreements may not provide adequate protection for our trade secrets, know-how or other proprietary information in the event of any unauthorized use or disclosure or the lawful development by others of such information. If any of our trade secrets, know-how or other proprietary information is disclosed, the value of our trade secrets, know-how and other proprietary rights would be significantly impaired and our business and competitive position would suffer.

Third-party claims of intellectual property infringement would require us to spend significant time and money and could prevent us from developing or commercializing our products.

In order to protect or enforce patent rights, we may initiate patent litigation against third parties. Similarly, we may be sued by others. We also may become subject to proceedings conducted in the U.S. Patent and Trademark Office, including interference proceedings to determine the priority of inventions, or reexamination proceedings. In addition, any foreign patents that are granted may become subject to opposition, nullity, or revocation proceedings in foreign jurisdictions having such proceedings opposed by third parties in foreign jurisdictions having opposition proceedings. The defense and prosecution, if necessary, of intellectual property actions are costly and divert technical and management personnel away from their normal responsibilities.

No patent can protect its holder from a claim of infringement of another patent. Therefore, our patent position cannot and does not provide any assurance that the commercialization of our products would not infringe the patent rights of another. While we know of no actual or threatened claim of infringement that would be material to us, there can be no assurance that such a claim will not be asserted.

If such a claim is asserted, there can be no assurance that the resolution of the claim would permit us to continue marketing the relevant product on commercially reasonable terms, if at all. We may not have sufficient resources to bring these actions to a successful conclusion. If we do not successfully defend any infringement actions to which we become a party or are unable to have infringed patents declared invalid or unenforceable, we may have to pay substantial monetary damages, which can be tripled if the infringement is deemed willful, or be required to discontinue or significantly delay commercialization and development of the affected products.

Any legal action against us or our collaborators claiming damages and seeking to enjoin developmental or marketing activities relating to affected products could, in addition to subjecting us to potential liability for damages, require us or our collaborators to obtain licenses to continue to develop, manufacture, or market the affected products. Such a license may not be available to us on commercially reasonable terms, if at all.

An adverse determination in a proceeding involving our owned or licensed intellectual property may allow entry of generic substitutes for our products.

Other Risks Related to Our Company

We are subject to Sarbanes-Oxley and the reporting requirements of federal securities laws, which can be expensive.

As a public reporting company, we are subject to the Sarbanes-Oxley Act of 2002, as well as to the information and reporting requirements of the Securities Exchange Act of 1934, as amended, and other federal securities laws. As a result, we incur significant legal, accounting, and other expenses that we did not incur as a private company, including costs associated with our public company reporting requirements and corporate governance requirements. As an example of public reporting company requirements, we evaluate the effectiveness of disclosure controls and procedures and of our internal control over financing reporting in order to allow management to report on such controls.

As a company with limited capital and human resources, our management has identified that there is a potential for a lack of segregation of duties due to the limited number of employees within our company's financial and administrative functions. Management believes that, based on the employees involved and the control procedures in place, risks associated with such lack of segregation are not significant and that the potential benefits of adding employees to segregate duties more clearly do not justify the associated added expense. However, our management is working to continuously monitor and improve internal controls and have set in place controls to mitigate the potential segregation of duties risk. We have engaged the services of a Sarbanes-Oxley consultant to tighten our internal controls and ensure adherence to the regulations. In the event significant deficiencies or material weaknesses are identified in our internal control over financial reporting that we cannot remediate in a timely manner, investors and others may lose confidence in the reliability of our financial statements and the trading price of our common stock and ability to obtain any necessary equity or debt financing could suffer.

There is not now, and there may not ever be an active market for shares of our common stock.

In general, there has been limited trading activity in shares of the Company's common stock. The small trading volume may make it more difficult for our stockholders to sell their shares as and when they choose. Furthermore, small trading volumes generally depress market prices. As a result, you may not always be able to resell shares of our common stock publicly at the time and prices that you feel are fair or appropriate.

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

Additional risks may exist as a result of our becoming a public reporting company through a "reverse merger." Security analysts of major brokerage firms may not provide coverage of the Company. Because we became public through a reverse merger, there is no incentive to brokerage firms to recommend the purchase of our common stock. No assurance can be given that brokerage firms will want to provide analyst coverage of our Company in the future.

Anti-takeover provisions in our charter documents and under Delaware law may make an acquisition of us, which may be beneficial to our stockholders, more difficult.

Provisions of our amended and restated certificate of incorporation and bylaws, as well as provisions of Delaware law, could make it more difficult for a third party to acquire us, even if doing so would benefit our stockholders. These provisions authorize the issuance of "blank check" preferred stock that could be issued by our board of directors to increase the number of outstanding shares and hinder a takeover attempt, and limit who may call a special meeting of stockholders.

In addition, Section 203 of the Delaware General Corporation Law, which prohibits business combinations between us and one or more significant stockholders unless specified conditions are met, may discourage, delay or prevent a third party from acquiring us.

Because we do not expect to pay dividends, you will not realize any income from an investment in our common stock unless and until you sell your shares at profit.

We have never paid dividends on our capital stock and we do not anticipate that we will pay any dividends for the foreseeable future. Accordingly, any return on an investment in our Company will be realized, if at all, only when you sell shares of our common stock.

Item 2. Description of Property

Our corporate office is located at 1180 Avenue of the Americas, 19th Floor, New York, NY 10036. The New York office space is subject to a five-year lease agreement that expires in June 2010. Under the terms of the lease, we lease approximately 2,580 square feet and are required to make monthly rental payments of approximately \$11,000 through the remainder of the term of the lease. Our business and development operations in Boston occupy approximately 13,000 square feet located in Boston, Massachusetts 02129. The main Boston office space consists of two floors which are under two separate lease agreements. The second floor, 4,872 square feet, is under a three-year lease that expires April 2010 and we are required to make monthly rental payments that range from \$9,947 during the current year of the lease to \$10,759 during the last year of the lease. The third floor, 6,750 square feet, is under a five-year lease that expires August 2012 and we are required to make monthly rental payments that range from \$13,218 during the current year of the lease to \$16,031 during the last year of the lease. The additional 1,000 square feet of the Boston space generates a monthly charge of approximately \$5,500 per month and is not subject to any long-term lease agreements. The Company also has a small office in New Haven, Connecticut that is leased until September 30, 2009, and generates monthly payments ranging from \$3,667 at the beginning of the lease to \$3,889 at the end of the lease term.

Item 3. Legal Proceedings

We are not currently involved in any material legal proceedings.

Item 4. Submission of Matters to a Vote of Security Holders

No matters were submitted to a vote of our security holders during the fourth quarter of the fiscal year ended December 31, 2007.

PART II:**Item 5. Market for Common Equity and related Stockholders Matters**

Prior to the consummation of the Merger, our common stock traded on the OTCBB under the symbol "ESWB." As a result of the Company's name change to ZIOPHARM Oncology, Inc., our common stock now trades under the symbol "ZIOP." On September 22, 2006, the Company's common shares began trading on the NASDAQ Capital Market under the symbol ZIOP. The following table sets forth the high and low sale or bid prices for our common stock for each quarter within the last two fiscal years as reported by NASDAQ and the OTCBB, as applicable. The OTCBB quotations reflect inter-dealer prices, without retail markup, markdown or commission, and may not represent actual transactions.

Fiscal Year 2007 (Quarter Ended)	Price Range	
	High	Low
December 31, 2007	\$ 3.60	\$ 2.08
September 30, 2007	\$ 5.45	\$ 3.06
June 30, 2007	\$ 6.50	\$ 4.59
March 31, 2007	\$ 5.97	\$ 4.35
Fiscal Year 2006 (Quarter Ended)	High	Low
December 31, 2006	\$ 5.97	\$ 5.60
September 30, 2006	\$ 5.19	\$ 4.90
June 30, 2006	\$ 5.50	\$ 5.20
March 31, 2006	\$ 4.80	\$ 4.80

The approximate number of stockholders of record of our common stock as December 31, 2007 was 292. We have never declared or paid a cash dividend on our common stock and do not anticipate paying any cash dividends in the foreseeable future.

Securities Authorized for Issuance under Equity Compensation Plans

The Company's 2003 Stock Option Plan (the "2003 Plan"), which is currently the Company's only equity compensation plan, has been approved by the Company's stockholders. The following table sets forth certain information as of December 31, 2007 with respect to the 2003 Plan:

Plan category	Number of Securities to be Issued Upon Exercise of Outstanding Options (A)	Weighted-Average Exercise Price of Outstanding Options (B)	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (A))
Equity compensation plans approved by security holders:			
2003 Stock Option Plan	2,797,000	\$ 3.81	1,100,317
Total:	2,797,000	\$ 3.81	1,100,317
Equity compensation plans not approved by stockholders:			
None.	-	-	-
Total	-	-	-

Item 6. Management Discussion and Analysis or Plan of Operation

Overview:

ZIOPHARM Oncology, Inc. is a biopharmaceutical company that is seeking to develop a diverse, risk-sensitive portfolio of in-licensed cancer drugs that address unmet medical needs. Our principal focus is on the licensing and development of proprietary drug candidates that are related to cancer therapeutics that are already on the market or in development and which can be administered by IV and/or oral dosing. We believe this strategy will result in lower risk and expedited drug development programs. While we expect to commercialize our products on our own in North America, we also recognize that promising clinical trial results might be addressed in a commercial partnership with another company with the requisite financial resources. Currently, we are in phase I and/or II studies for three product candidates known as darinaparsin (“ZIO-101”), palifosfamide (“ZIO-201”) and indibulin (“ZIO-301”):

- Darinaparsin is an organic arsenic compound covered by issued patents and pending patent applications in the U.S. and foreign countries. A form of commercially available inorganic arsenic (arsenic trioxide [Trisenox[®]]; “ATO”) has been approved for the treatment of acute promyelocytic leukemia (“APL”), a precancerous condition, is on the compendia listing for the therapy of multiple myeloma, and has been studied for the treatment of various other cancers. Nevertheless, ATO has been shown to be toxic to the heart, liver, and brain, which limits its use as an anti-cancer agent. Inorganic arsenic has also been shown to cause cancer of the skin and lung in humans. The toxicity of arsenic is generally correlated to its accumulation in organs and tissues. Our preclinical and clinical studies to date have demonstrated that darinaparsin is considerably less toxic than inorganic arsenic, particularly with regard to heart toxicity. Similar results have been reported for other organic species. *In vitro* testing of darinaparsin using the National Cancer Institute’s human cancer cell panel detected activity against lung, colon, brain, melanoma, ovarian, and kidney cancer. Moderate activity was detected against breast and prostate cancer. In addition to solid tumors, *in vitro* testing in both the National Cancer Institute’s cancer cell panel and *in vivo* testing in a leukemia animal model demonstrated substantial activity against hematological cancers (cancers of the blood and blood-forming tissues) such as leukemia, lymphoma, myelodysplastic syndromes, and multiple myeloma. Preclinical studies have also established anti-angiogenic properties of darinaparsin and also support the development of an oral form of the drug.

Phase I testing of the intravenous (“IV”) form of darinaparsin in both solid tumors and hematological cancers has been completed. The Company has reported encouraging signs of clinical activity along with an expected safety profile in both of these studies. The Company is presently conducting phase II studies in advanced myeloma, certain other hematological cancers, and primary liver cancer, and has reported on early patient treatment in both of the blood cancer trials. The Company has recently opened a phase I study for an oral form of darinaparsin, ahead of schedule. Study results from the oral phase I trial and the ongoing IV phase II trials, in conjunction with the changing marketplace with regard to other therapies, will determine the expected registration pathway for darinaparsin.

Several proprietary forms of palifosfamide, or isophosphoramid mustard (“IPM”), a metabolite of ifosfamide that is also related to cyclophosphamide, have been developed. A patent application for pharmaceutical composition has been filed in the U.S. and internationally. Cyclophosphamide and ifosfamide are alkylating agents. The Company believes that cyclophosphamide is the most widely used alkylating agent in cancer therapy and it is used to treat breast cancer and non-Hodgkin’s lymphoma. Ifosfamide has been shown to be effective in high dose by itself or in combination in treating sarcoma and lymphoma and is approved by the FDA as a treatment for testicular cancer. Although ifosfamide-based treatment generally represents the standard of care for sarcoma, it is not licensed for this indication by the U.S. FDA. Our preclinical studies have shown that, in animal and laboratory models, palifosfamide evidences activity against leukemia and solid tumors. These studies also indicate that palifosfamide has a better pharmacokinetic and safety profile than ifosfamide or cyclophosphamide, offering the possibility of safer and more efficacious therapy. Ifosfamide is metabolized to IPM. In addition to IPM, another metabolite of ifosfamide is acrolein, which is toxic to the kidneys and bladder. The presence of acrolein can mandate the administration of a protective agent called mesna, which is inconvenient and expensive. Chloroacetaldehyde is another metabolite of ifosfamide and is toxic to the central nervous system, causing “fuzzy brain” syndrome for which there is currently no protective measure. Similar toxicity concerns pertain to high-dose cyclophosphamide, which is widely used in bone marrow and blood cell transplantation. Because palifosfamide is independently active without acrolein or chloroacetaldehyde metabolites, the Company believes that the administration of palifosfamide (without the co-administration of mesna) may avoid many of the toxicities of ifosfamide and cyclophosphamide without compromising efficacy. In some instances palifosfamide appears to show activity in ifosfamide- and/or cyclophosphamide-resistant cancer cells.

Phase I and phase II testing of the intravenous form of palifosfamide to treat advanced sarcoma is ongoing in the U.S. Palifosfamide has been administered without the “uroprotectant” mesna, and the toxicities associated with acrolein and chloroacetaldehyde have not been observed. Kidney toxicity has been identified as the dose limiting toxicity. The Company has reported encouraging signs of clinical activity in the phase II study to date, which is now nearing completion. The Company expects this phase II study, following discussions with appropriate health authorities, will serve as a basis for a registration trial. The Company has filed an U.S. Investigational New Drug Application for an oral form of palifosfamide.

- Indibulin is a novel small molecular-weight tubulin polymerization inhibitor that was acquired from Baxter Healthcare. An ongoing phase I study in the Netherlands and a recently initiated phase I study in the U.S. (with continuous dosing) are currently underway to evaluate safety, pharmacokinetics ("PK"), maximum tolerated dose ("MTD"), and dose-limiting toxicity ("DLT") in patients with advanced solid tumors. The Company expects to complete these and other studies as the basis for a phase II single agent study for a solid tumor indication, as well as phase I/II combination studies with other agents; the first of these combination studies is now underway.

The microtubule component tubulin is one of the best-established anti-tumor targets currently available. A number of anticancer drugs are on the market that target tubulin, such as paclitaxel (Taxol[®]) and the vinca alkaloid family (vincristine, vinorelbine). This class of agents is typically the mainstay of therapy in a wide variety of indications. In spite of their effectiveness, the use of these drugs is also associated with significant toxicities, notably peripheral neurotoxicity. In contrast, indibulin has not shown peripheral neurotoxicity either in preclinical testing or in clinical studies to date.

Indibulin is an orally available compound. Preclinical studies demonstrate significant and broad activity (including in taxane refractory and multi-drug resistant cell lines and xenografts) and it is potentially safer than other tubulin inhibitors (there has been no neurotoxicity at therapeutic doses in animals and in the ongoing phase I trials). At the current time, the Company anticipates pursuing a Fast Track development program in a niche indication following the completion of the phase I/II testing. In addition, the availability of an IV formulation would further expand the market opportunity and will be explored in 2008. The availability of an oral formulation of indibulin creates significant commercial opportunity, since no oral formulations of paclitaxel or related compounds are currently on the market.

Although we intend to continue with clinical development of darinaparsin for various indications, palifosfamide for advanced sarcoma and other indications, and indibulin in solid tumors, the successful development of our product candidates is highly uncertain. Product development costs and timelines can vary significantly for each product candidate and are difficult to accurately predict. Various statutes and regulations also govern or influence the manufacturing, safety, labeling, storage, record keeping and marketing of each product. The lengthy process of seeking approval and the subsequent compliance with applicable statutes and regulations require the expenditure of substantial resources. Any failure by us to obtain, or any delay in obtaining, regulatory approvals could materially adversely affect our business. To date, we have not received approval for the sale of any drug candidates in any market and, therefore, have not generated any revenues from our drug candidates.

Plan of Operation

Our plan of operation for the next twelve months is to continue implementing our business strategy, including the clinical development of our three lead product candidates, darinaparsin, palifosfamide, and indibulin. We also intend to expand our drug candidate portfolio by seeking additional drug candidates through in-licensing arrangements. We expect our principal expenditures during those 12 months to include:

- Fees and milestone payments required under the license agreements relating to our existing product candidates;
- Clinical trial expenses, including the costs incurred with respect to the conduct of clinical trials for darinaparsin, palifosfamide and indibulin, and preclinical costs associated with back-up candidates;
- Costs related to the scale-up and manufacture of darinaparsin, palifosfamide and indibulin;
- Rent for our facilities; and
- General corporate and working capital, including general and administrative expenses.

As part of our plan for additional employees, we anticipate hiring several additional full-time employees in the regulatory, clinical and finance functions. In addition, we intend to use senior advisors, consultants, clinical research organizations, and third parties to perform certain aspects of product development, manufacturing, clinical, and preclinical development, and regulatory and quality assurance functions.

At our current and desired pace of clinical development of darinaparsin, palifosfamide, indibulin, other back-up candidates, and ongoing in-licensing efforts over the next 12 months, we expect to spend approximately \$3.0 million on preclinical and regulatory expenses, \$12.1 million on clinical expenses (including clinical trials and milestone payments that we expect to be triggered under the license agreements relating to our product candidates), approximately \$4.4 million on manufacturing costs, approximately \$600,000 on facilities, rent, and other facilities-related costs, and approximately \$5.2 million on general corporate and working capital. With the proceeds from the common stock offering of February 23, 2007, we believe that we currently have sufficient capital to fund development and commercialization activities of darinaparsin, palifosfamide, and indibulin into May of 2009.

Product Candidate Development and Clinical Trials

Darinaparsin, organic arsenic, is being developed presently to treat advanced myeloma, other hematological malignancies, and liver cancer. Three separate phase II trials have been initiated. A phase I trial with an oral form of darinaparsin is ongoing. We will continue to explore different indications, dosing schedules, forms, and formulations. Preclinical development will continue with back-up compounds and additional compounds are being synthesized. Technology transfer and scale-up for the commercial manufacture of the active pharmaceutical ingredient, its lyophilization, and final product specification for both the IV and oral formulations will continue through the period to a registration trial.

Stabilized palifosfamide, which is isophosphoramidate mustard (“IPM”), is being developed presently to treat advanced sarcoma. A phase II trial in advanced sarcoma is nearing completion. Other trials, including different indications and an oral form of administration are in the advanced planning stages. An IV palifosfamide trial in combination with doxorubicin has commenced. We expect to initiate a registration trial in advanced sarcoma following the completion of the phase II study. Technology transfer and scale-up for the commercial manufacture of the active pharmaceutical ingredient, its lyophilization, and final product specification will continue. Preclinical development will continue with back-up analogues.

Indibulin, a novel anti-cancer agent that targets mitosis like the taxanes, is available as an oral form and potentially an intravenous form. The oral form is currently in a phase I trial in Europe and a separate trial in the United States (using continuous dosing) has been initiated in the United States as is a third trial to determine drug activity. The phase I portion of a phase I/II trial in combination with Tarceva[®] has just initiated.

Results of Operations for the Fiscal Year Ended December 31, 2007 versus December 31, 2006

Revenues. We had no revenues for years ended December 31, 2007 and 2006.

Research and development expenses. For the year ended December 31, 2007, research and development expenses increased by \$8,601,333, or 82.8%, to \$18,992,635 from \$10,391,302 in the year ended December 31, 2006. Increased research and development expenses in the current year period are primarily attributable to an approximately \$3.7 million increase in the cost of clinical trials, clinical milestone, and regulatory-related expenses, an increase of \$0.5 million in preclinical related expenses, and an increase of approximately \$3.4 million in manufacturing-related costs. The increase in expenses is also attributable to an increase of approximately \$1.0 million in payroll and employee-related costs as a result of our increasing headcount and an approximate increase of \$0.3 million in non-cash stock compensation expense-related to grants of stock options.

General and administrative expenses. For the year ended December 31, 2007, general and administrative expenses increased by \$857,568, or 9.8%, to \$9,577,858 from \$8,720,290 in the year ended December 31, 2006. The increase is attributable to an increase of approximately \$300,000 in financial consulting costs, approximately \$72,000 for investors relations services, approximately \$0.5 million in legal and patent related fees, approximately \$0.2 million in rent and related facility expenses, approximately \$0.3 million for recruiting expenses, approximately \$0.1 million for travel, meals, and other related expenses, and approximately \$0.1 million for insurance, utilities, and office supply related expenses. The increase in expense is also attributed to an increase of approximately \$1.0 million in payroll and employee-related costs resulting from our increasing headcount. These increases were offset by an approximate \$1.7 million decrease in stock compensation expenses relating to grants of stock options recorded in the year ended December 31, 2006.

Other income (expense). Other income increased by \$707,574, or 56.4%, to \$1,962,247 in the year ended December 31, 2007 from \$1,254,673 recorded in the year ended December 31, 2006. Other income during the year ended December 31, 2007 and 2006, respectively, comprised interest income. The increase is due to higher cash balances, which was derived from our February 23, 2007 private placement of common stock and warrants, that was made available for investing purposes. We received approximately \$29.0 million in the net proceeds from this private placement.

Net income (loss). For the reasons described above, the net loss increased by \$8,751,327, or 49.0%, to \$26,608,246 in the year ended December 31, 2007 from \$17,856,919 for the same period of 2006.

Results of Operations for the fiscal year ended December 31, 2006 versus December 31, 2005

Revenues. We had no revenues for years ended December 31, 2006 and 2005.

Research and development expenses. For the year ended December 31, 2006, research and development expenses increased by \$4,797,452, or 85.8%, to \$10,391,302 from \$5,593,850 in the year ended December 31, 2005. A significant portion of the increase is due to the purchased research and development of \$1.2 million for indibulin. Increased research and development expenses in the current year period can also be attributable to an increase of approximately \$0.4 million in milestone expenses in relation to darinaparsin and palifosfamide. In addition, the increase is attributable to an increase of approximately \$0.9 million in the cost of clinical trials, an increase of approximately \$0.6 million in manufacturing-related costs, and an increase of approximately \$0.1 million in travel expense. The increase in expenses is also attributable to an increase of approximately \$1.0 million in stock compensation expense related to stock options, approximately \$0.5 million in employee-related costs, and approximately \$0.1 million increase in recruiting costs.

General and administrative expenses. For the year ended December 31, 2006, general and administrative expenses increased by \$4,526,738, or 107.9%, to \$8,720,290 from \$4,193,552 in the year ended December 31, 2005. The increase is attributable to an increase of approximately \$2.5 million in stock compensation expense related to stock options; approximately \$0.5 million for investors relations services, approximately \$0.4 million in legal, accounting, and filing fee costs; approximately \$0.2 million in travel expenses; approximately \$0.1 million in recruiting costs; approximately \$0.1 million in insurance-related expenses; approximately \$0.1 million in facility, depreciation, and equipment rental expenses; and approximately \$0.7 million in employee-related costs. These increases were incurred as a result of building our infrastructure to support our research and development efforts. In addition, there was a \$0.2 million one-time settlement fee to Paramount BioCapital (see footnote 5 for more information). These costs were offset by a decrease of \$0.4 million in merger-related costs that were incurred in the year ending December 31, 2005.

Other income (expense). Other income increased by \$984,194, or 363.9%, to \$1,254,673 in the year ended December 31, 2006 from \$270,479 recorded in the year ended December 31, 2005. Other income during the year ended December 31, 2006 and 2005, respectively, was comprised of interest income. The increase is due to higher cash balances, which was derived from the May 3, 2006 private placement that was made available for investing purposes.

Net income (loss). For the reasons described above, the net loss increased by \$8,339,997, or 87.6%, to \$17,856,919 million in the year ended December 31, 2006 from \$9,516,922 for the same period of 2005.

Liquidity and Capital Resources

As of December 31, 2007, we had approximately \$35.0 million in cash and cash equivalents. With the proceeds from our 2007 common stock offering, completed on February 23, 2007, we believe that we currently have sufficient capital to fund development and commercialization activities of darinaparsin, palifosfamide, and indibulin late into the second quarter of 2009. However, our actual cash requirements may vary materially from those now planned because of a number of factors, including:

- Changes in the focus and direction of our research and development programs, including the acquisition and pursuit of development of new product candidates;
- Competitive and technical advances;
- Costs of commercializing any of the product candidates; and
- Costs of filing, prosecuting, defending and enforcing any patent claims and any other intellectual property rights; or other developments.

The Company anticipates that losses will continue for the foreseeable future. At December 31, 2007, the Company's accumulated deficit was approximately \$59.8 million. The Company has incurred significant losses from operations and has an accumulated deficit that raises substantial doubt about the Company's ability to continue as a going concern. The Company's ability to continue operations after its current cash resources are exhausted depends upon its ability to obtain additional financing and achieve profitable operations, as to which no assurances can be given.

Because our business does not generate any cash flow, we will need to raise additional capital after we exhaust our current cash resources in order to continue to fund our research and development, including our long-term plans for clinical trials and new product development, as well as to fund operations generally. We expect to finance our cash needs through the sale of equity securities and possibly strategic collaborations or debt financings or through other sources that may be dilutive to existing stockholders. There can be no assurance that any such financing can be realized by the Company, or if realized, what the terms thereof may be, or that any amount that the Company is able to raise will be adequate to support the Company's working capital requirements until it achieves profitable operations. If we are unable to raise additional funds when needed, we may not be able to market our products as planned or continue development and regulatory approval of our products, or we could be required to delay, scale back, or eliminate some or all our research and development programs. Each of these alternatives would likely have a material adverse effect on the prospects of our business.

Further, our assumptions relating to the expected costs of development and commercialization and timeframe for completion are dependent upon numerous factors other than available financing, including significant unforeseen delays in the clinical trial and regulatory approval process, which could be extremely costly. In addition, our estimates assume that we will be able to enroll a sufficient number of patients in each clinical trial.

Liquidity and Capital Resources...Continued

Since inception, our primary source of funding for our operations has been the private sale of our securities. During the year ended December 31, 2007, we received gross proceeds of approximately \$30.9 million (\$28,970,915 net of cash issuance costs) as a result of a sale of an aggregate of 5,910,049 shares of the Company's common stock at a price of \$5.225 per share in a private placement (the "2007 Offering"). In addition to the shares, the Company also issued to each investor a five-year warrant to purchase, at an exercise price of \$5.75 per share, an additional number of shares of common stock equal to 20 percent of the shares purchased by such investor in the 2007 Offering. In the aggregate, these warrants entitle investors to purchase an additional 1,182,015 shares of common stock. The Company estimated the fair value of these warrants at \$4,724,169 using the Black-Scholes model, and using an assumed risk-free rate of 4.71% and an expected life of 5 years, volatility of 93%, and a dividend yield of 0%. The Company engaged Paramount BioCapital, Inc. ("Paramount"), Oppenheimer & Co. Inc., and Griffin Securities, Inc. (together, the "2007 Placement Agents") as placement agents in connection with the 2007 Offering. In consideration for their services, the Company paid the 2007 Placement Agents aggregate cash commissions of \$1,630,800 and issued 5-year warrants to the 2007 Placement Agents and their designees to purchase an aggregate of 156,058 shares of the Company's common stock at an exercise price of \$5.75 per share. In connection with the 2007 Offering, the Company also made cash payments of \$222,000 and issued 5-year warrants to purchase 21,244 shares of the Company's common stock, at an exercise price of \$5.75 per share, to a financial consultant pursuant to the non-circumvention provision of a prior agency agreement. The Company estimated the fair value of the 177,302 warrants at \$708,624 using the Black-Scholes model, using an assumed risk-free rate of 4.71% and an expected life of 5 years, volatility of 93%, and a dividend yield of 0%.

During the year ended December 31, 2006, we received gross proceeds of approximately \$37 million (\$34,280,121 net of cash issuance costs) as a result of the sale of an aggregate of 7,991,256 shares of common stock, at a price of \$4.63 per share, in a private offering (the "2006 Offering") that was completed on May 3, 2006. In addition to the Shares, the Company also issued to each investor a five-year warrant to purchase, at an exercise price of \$5.56 per share, an additional number of shares of common stock equal to 30 percent of the shares purchased by such investor in the 2006 Offering. In the aggregate, these warrants entitle investors to purchase an additional 2,397,392 shares of common stock. The Company engaged Paramount BioCapital, Inc. and Griffin Securities, Inc. (the "2006 Placement Agents") as co-placement agents in connection with the 2006 Offering. In consideration for their services, the Company paid the 2006 Placement Agents and certain selected dealers engaged by the 2006 Placement Agents aggregate cash commissions of \$2,589,966 and issued 7-year warrants to the 2006 Placement Agents and their designees to purchase an aggregate of 799,126 shares at an exercise price of \$5.09 per share. The Company also agreed to reimburse the 2006 Placement Agents for their accountable expenses incurred in connection with the Offering.

During the year ended December 31, 2005, we received \$4,815 proceeds from the exercise of stock options and gross proceeds of approximately \$18.1 million (\$16.8 net of issuance costs) as a result of the sale by ZIOPHARM, Inc. of Series A Convertible Preferred Stock in a private placement transaction. During the twelve months ended December 31, 2004, we received proceeds of approximately \$4.5 million as a result of the sale by ZIOPHARM, Inc. of common stock in a private placement transaction. The Company engaged Paramount as a placement agent in the Series A Convertible Preferred Stock offering and granted Paramount a right of first refusal to act as the placement agent for the private sale of the Company's securities through May 31, 2008. On December 18, 2006 the Company paid Paramount a cash settlement of \$180,000 in exchange for Paramount's agreement to terminate this right of first refusal.

At December 31, 2007, working capital was approximately \$29.2 million, compared to working capital of approximately \$25.9 million at December 31, 2006. The increase in working capital reflects the proceeds from the 2007 Offering offset by the use of funds for operations.

Capital expenditures were approximately \$738,000 for the year ended December 31, 2007. We anticipate capital expenditures of approximately \$700,000 for the fiscal year ended December 31, 2008.

The Company's significant lease obligation payable is as follows:

	Payments due by Period					2012 and thereafter
	Total	2008	2009	2010	2011	
Operating lease	\$ 1,552,870	\$ 485,477	\$ 463,949	\$ 287,319	\$ 187,875	128,250

Critical Accounting Policies and Significant Estimates

The preparation of financial statements requires the Company to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue and expenses, and related disclosure of contingent assets and liabilities. On an on-going basis, the Company evaluates its estimates, including those related to accounting for stock-based compensation and research and development activities. The Company bases its estimates on historical experience and on various other assumptions that are believed 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 difference assumptions or conditions.

Operating Expenses

Research and development expenses consist primarily of salaries and related personnel costs; fees paid to consultants and outside service providers for preclinical, clinical, and manufacturing development; legal expenses resulting from intellectual property prosecution and organizational affairs; and other expenses relating to the design, development, testing, and enhancement of our product candidates. We expense our research and development costs as they are incurred. General and administrative expenses consist primarily of salaries and related expenses for executive, finance, and other administrative personnel, recruitment expenses, professional fees and other corporate expenses, including business development and general legal activities.

Stock-based Compensation

The Company's most critical estimates consist of accounting for stock-based compensation. On January 1, 2006, the Company adopted Statement of Financial Accounting Standards No. 123(R) ("SFAS 123R") Share-Based Payment, using the modified prospective method, which results in the provision of SFAS 123R being applied only to the consolidated financial statements on a going-forward basis (that is, the prior period results have not been restated). Under the fair value recognition provisions of SFAS 123R, stock-based compensation cost is measured at the grant date, based on the value of the award using the Black-Scholes Model, and is recognized as expense over the service period. Previously, the Company had followed Accounting Principles Board ("APB") Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations which resulted in account for employee share options at their intrinsic value in the financial statements.

The Company had previously adopted the provisions of SFAS No. 123, *Accounting for Stock-Based Compensation* ("SFAS 123"), as amended by SFAS No. 148, *Accounting for Stock-Based Compensation - Transition and Disclosure*, through disclosure only. SFAS 123 required the measurement of the fair value of stock option or warrants granted to employees to be included in the statement of operations or alternatively, disclosed in the notes to the financial statements. The Company previously accounted for stock-based awards to employees using the intrinsic value method as prescribed by Accounting Principles Board ("APB") Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, and had elected the disclosure only alternative under SFAS 123. All stock-based awards to nonemployees were accounted for at their fair value in accordance with SFAS 123 and Emerging Issues Task Force ("EITF") 96-18, *Accounting for Equity Instruments that are Issued to Other than Employees for Acquiring, or in Conjunction with Selling, Goods or Services*. The Company had recorded the fair value of each stock option issued to non-employees as determined at the date of grant using the Black-Scholes option pricing model. Had we applied the fair value recognition provisions of SFAS No. 123, our net loss for the year ended December 31, 2005 would have increased by approximately \$844,000. We expect to record additional non-cash compensation expense in the future, which may be significant.

Off-Balance Sheet Arrangements

We do not have any "off-balance sheet agreements," as that term is defined by SEC regulation.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of
ZIOPHARM Oncology, Inc.
Boston, Massachusetts

We have audited the balance sheets of ZIOPHARM Oncology, Inc. (a development stage company) as of December 31, 2007 and 2006 and the related statements of operations, changes in convertible preferred stock and stockholders' equity (deficit) and cash flows for each of the years in the three-year period ended December 31, 2007 and for the period from inception (September 9, 2003) through December 31, 2007. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, audits 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, 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 ZIOPHARM Oncology, Inc. as of December 31, 2007 and 2006 and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 2007 and for the period from inception (September 9, 2003) through December 31, 2007 in conformity with accounting principles generally accepted in the United States of America.

As discussed in Note 2 to the financial statements, effective January 1, 2006, the Company adopted the provisions of Statement of Financial Accounting Standard No. 123R, "Share Based Payment".

Vitale, Caturano & Company, Ltd.
Boston, Massachusetts
February 7, 2008

PART I - FINANCIAL INFORMATION**ZIOPHARM Oncology, Inc.**
(A Development Stage Enterprise)
Balance Sheets

	<u>December 31,</u> <u>2007</u>	<u>December 31,</u> <u>2006</u>
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 35,028,798	\$ 26,855,450
Short-term investments	-	1,555,164
Prepaid expenses and other current assets	498,864	462,789
Total current assets	<u>35,527,662</u>	<u>28,873,403</u>
Property and equipment, net	746,421	451,247
Deposits	95,497	9,367
Other non current assets	356,881	178,080
Total assets	<u>\$ 36,726,461</u>	<u>\$ 29,512,097</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 2,909,170	\$ 776,128
Accrued expenses	3,396,480	2,161,914
Total current liabilities	<u>6,305,650</u>	<u>2,938,042</u>
Deferred rent	50,988	41,078
Total Liabilities	<u>6,356,638</u>	<u>2,979,120</u>
Commitments and contingencies		
Stockholders' equity:		
Common stock, \$.001 par value; 280,000,000 shares authorized; 21,298,964 and 15,272,899 shares issued and outstanding at December 31, 2007 and December 31, 2006, respectively	21,299	15,273
Preferred stock, \$0.01 par value; 30,000,000 shares authorized and no shares issued and outstanding	-	-
Additional paid-in capital	69,674,151	44,667,878
Warrants issued	20,503,894	15,071,101
Deficit accumulated during the development stage	(59,829,521)	(33,221,275)
Total stockholders' equity	<u>30,369,823</u>	<u>26,532,977</u>
Total liabilities and stockholders' equity	<u>\$ 36,726,461</u>	<u>\$ 29,512,097</u>

ZIOPHARM Oncology, Inc.*(A Development Stage Enterprise)*

Statements of Operations

For the years ended December 31, 2007, 2006, and 2005,

for the period from inception (September 9, 2003) through December 31, 2007

	For the year ended <u>December 31, 2007</u>	For the year ended <u>December 31, 2006</u>	For the year ended <u>December 31, 2005</u>	For the Period from Inception (September 9, 2003) through <u>December 31, 2007</u>
Research contract revenue	\$ -	\$ -	\$ -	\$ -
Operating expenses:				
Research and development, including costs of research contracts	18,992,635	10,391,302	5,593,850	37,104,394
General and administrative	<u>9,577,858</u>	<u>8,720,290</u>	<u>4,193,552</u>	<u>26,234,294</u>
Total operating expenses	<u>28,570,493</u>	<u>19,111,592</u>	<u>9,787,402</u>	<u>63,338,688</u>
Loss from operations	(28,570,493)	(19,111,592)	(9,787,402)	(63,338,688)
Interest income	1,962,247	1,254,673	270,479	3,509,167
Net loss	<u>\$ (26,608,246)</u>	<u>\$ (17,856,919)</u>	<u>\$ (9,516,922)</u>	<u>\$ (59,829,521)</u>
Basic and diluted net loss per share	<u>\$ (1.41)</u>	<u>\$ (1.42)</u>	<u>\$ (2.32)</u>	
Weighted average common shares outstanding used to compute basic and diluted net loss per share	<u>18,832,351</u>	<u>12,571,951</u>	<u>4,101,514</u>	

ZIOPHARM Oncology, Inc.
(A Development Stage Enterprise)

Statements of Cash Flows

For the years ended December 31, 2007, 2006, and 2005,

for the period from inception (September 9, 2003) through December 31, 2007

	For the year ended December 31, 2007	For the year ended December 31, 2006	For the year ended December 31, 2005	For the Period from Inception (September 9, 2003) through December 31, 2007
Cash flows from operating activities:				
Net loss	\$ (26,608,246)	\$ (17,856,919)	\$ (9,516,923)	\$ (59,829,521)
Adjustments to reconcile net loss to net cash used in operating activities:				
Depreciation and amortization	433,353	173,920	101,232	742,458
Stock-based compensation	1,438,588	2,882,658	98,755	5,123,117
(Gain)loss on disposal of fixed assets	9,588	(1,165)	-	8,423
Change in operating assets and liabilities:				
(Increase) decrease in:				
Prepaid expenses and other current assets	(36,075)	(250,952)	(94,266)	(498,864)
Other noncurrent assets	(178,801)	(53,737)	(124,343)	(356,881)
Deposits	(86,130)	(3,667)	54,346	(95,497)
Increase (decrease) in:				
Accounts payable	2,133,042	(59,869)	126,050	2,909,170
Accrued expenses	1,234,566	743,095	539,443	3,396,480
Deferred rent	9,910	5,521	35,557	50,988
Net cash used in operating activities	<u>(21,650,205)</u>	<u>(14,421,115)</u>	<u>(8,780,149)</u>	<u>(48,550,127)</u>
Cash flows from investing activities:				
Purchases of property and equipment	(738,115)	(354,300)	(130,201)	(1,497,302)
(Increase)decrease in short-term investments	1,555,164	(1,555,164)	-	-
Net cash (used in) provided by investing activities	<u>817,049</u>	<u>(1,909,464)</u>	<u>(130,201)</u>	<u>(1,497,302)</u>
Cash flows from financing activities:				
Stockholders' capital contribution	-	-	-	500,000
Proceeds from exercise of stock options	35,589	25,192	4,815	65,596
Proceeds from issuance of common stock and warrants, net	28,970,915	34,280,120	-	67,751,035
Proceeds from issuance of preferred stock, net	-	-	16,759,596	16,759,596
Net cash provided by financing activities	<u>29,006,504</u>	<u>34,305,312</u>	<u>16,764,411</u>	<u>85,076,227</u>
Net increase in cash and cash equivalents	8,173,348	17,974,733	7,854,061	35,028,798
Cash and cash equivalents, beginning of period	<u>26,855,450</u>	<u>8,880,717</u>	<u>1,026,656</u>	<u>-</u>
Cash and cash equivalents, end of period	<u>\$ 35,028,798</u>	<u>\$ 26,855,450</u>	<u>\$ 8,880,717</u>	<u>\$ 35,028,798</u>
Supplementary disclosure of cash flow information:				
Cash paid for interest	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Cash paid for income taxes	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Supplementary disclosure of noncash investing and financing activities:				
Warrants issued to placement agents and investors, in connection with private placement	<u>\$ 5,432,793</u>	<u>\$ 13,092,561</u>	<u>\$ 1,682,863</u>	<u>\$ 20,208,217</u>
Preferred stock conversion to common stock	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 16,759,596</u>	<u>\$ 16,759,596</u>
Warrants converted to common shares	<u>\$ -</u>	<u>\$ 17,844</u>	<u>\$ -</u>	<u>\$ 17,844</u>

ZIOPHARM Oncology, Inc.
(A Development Stage Enterprise)

 Statement of Changes in Convertible Preferred Stock and Stockholders' Equity (Deficit)
 for the period from inception (September 9., 2003) to December 31, 2007

	Convertible Preferred Stock and Warrants			Stockholder's Equity (Deficit)						
	Series A Convertible Preferred Stock		Warrants to Purchase Series A Convertible Preferred Stock	Common Stock			Additional Paid- in Capital	Warrants	Deficit Accumulated During The Development Stage	Total Stockholders' Equity/ (Deficit)
	Shares	Amount	Warrants	Shares	Amount					
Stockholders' contribution, September 9, 2003	-	\$ -	\$ -	250,487	\$ 250	\$ 499,750	\$ -	\$ -	-	\$ 500,000
Net loss	-	-	-	-	-	-	-	-	(160,136)	(160,136)
Balance at December 31, 2003	-	-	-	250,487	250	499,750	-	-	(160,136)	339,864
Issuance of common stock	-	-	-	2,254,389	2,254	4,497,746	-	-	-	4,500,000
Issuance of common stock for services	-	-	-	256,749	257	438,582	-	-	-	438,839
Fair value of options/warrants issued for nonemployee services	-	-	-	-	-	13,240	251,037	-	-	264,277
Net loss	-	-	-	-	-	-	-	-	(5,687,297)	(5,687,297)
Balance at December 31, 2004	-	-	-	2,761,625	2,761	5,449,318	251,037	-	(5,847,433)	(144,317)
Issuance of Series A convertible preferred stock (net of expenses of \$1,340,263 and warrant cost of \$1,682,863)	4,197,946	15,076,733	-	-	-	-	-	-	-	-
Fair value of warrants to purchase Series A convertible preferred stock	-	-	1,682,863	-	-	-	-	-	-	-
Issuance of Common stock to EasyWeb Shareholders	-	-	-	189,922	190	(190)	-	-	-	-
Conversion of Series A convertible preferred stock @ \$.0001 into \$.0001 common stock on September 13, 2005 at an exchange ratio of .500974	(4,197,946)	(15,076,733)	(1,682,863)	4,197,823	4,198	15,072,535	1,682,863	-	-	16,759,596
Issuance of common stock for options	-	-	-	98,622	99	4,716	-	-	-	4,815
Fair value of options/warrants issued for nonemployee services	-	-	-	-	-	54,115	44,640	-	-	98,755
Net loss	-	-	-	-	-	-	-	-	(9,516,923)	(9,516,923)
Balance at December 31, 2005	-	-	-	7,247,992	7,248	20,580,494	1,978,540	-	(15,364,356)	7,201,926
Issuance of common stock in private placement, net of expenses \$2,719,395	-	-	-	7,991,256	7,991	21,179,568	-	-	-	21,187,559
Issuance of warrants	-	-	-	-	-	-	13,092,561	-	-	13,092,561
Issuance of common stock for services rendered	-	-	-	25,000	25	106,225	-	-	-	106,250
Stock based compensation for employees	-	-	-	-	-	2,776,408	-	-	-	2,776,408
Issuance of common stock due to exercise of stock options	-	-	-	5,845	6	25,186	-	-	-	25,192
Issuance of common stock due to exercise of stock warrants	-	-	-	2,806	3	(3)	-	-	-	-
Net loss	-	-	-	-	-	-	-	-	(17,856,919)	(17,856,919)
Balance at December 31, 2006	-	-	-	15,272,899	15,273	44,667,878	15,071,101	-	(33,221,275)	26,532,977
Issuance of common stock in private placement, net of expenses \$1,909,090	-	-	-	5,910,049	5,910	23,532,212	-	-	-	23,538,122
Issuance of warrants	-	-	-	-	-	-	5,432,793	-	-	5,432,793
Stock-based compensation for employees	-	-	-	-	-	1,318,096	-	-	-	1,318,096
Stock-based compensation for non-employee	-	-	-	-	-	120,492	-	-	-	120,492
Issuance of common stock due to exercise of stock options	-	-	-	46,016	46	35,543	-	-	-	35,589
Issuance of restricted stock	-	-	-	70,000	70	(70)	-	-	-	-
Net Loss	-	-	-	-	-	-	-	-	(26,608,246)	(26,608,246)
Balance at December 31, 2007	-	\$ -	\$ -	21,298,964	\$ 21,299	\$ 69,674,151	\$ 20,503,894	\$ -	(59,829,521)	\$ 30,369,823

1. ORGANIZATION

ZIOPHARM Oncology, Inc. (“ZIOPHARM” or the “Company”) is a development stage biopharmaceutical company that seeks to acquire, develop and commercialize, on its own or with other commercial partners, products for the treatment of important unmet medical needs in cancer.

The Company has operated at a loss since its inception in 2003 and has no revenues. The Company anticipates that losses will continue for the foreseeable future. At December 31, 2007, the Company’s accumulated deficit was approximately \$59.8 million. With the proceeds from its 2007 common stock offering, which was completed on February 23, 2007, the Company believes currently it has sufficient capital to fund development and commercialization activities of darinaparsin, palifosfamide, and indibulin late into the second quarter of 2009. The Company’s ability to continue operations after its current cash resources are exhausted depends on its ability to obtain additional financing and achieve profitable operations, as to which no assurances can be given. Cash requirements may vary materially from those now planned because of changes in the focus and direction of its research and development programs, competitive and technical advances, patent developments or other developments. Additional financing will be required to continue operations after the Company exhausts its current cash resources and to continue its long-term plans for clinical trials and new product development. There can be no assurance that any such financing can be realized by the Company, or if realized, what the terms thereof may be, or that any amount that Company is able to raise will be adequate to support the Company’s working capital requirements until it achieves profitable operations.

On February 23, 2007, pursuant to subscription agreements between the Company and certain institutional and other accredited investors, the Company completed the sale of an aggregate of 5,910,049 shares of the Company’s common stock at a price of \$5.225 per share in a private placement (the “2007 Offering”). In addition to these shares sold in the 2007 Offering, the Company also issued to each investor a five-year warrant to purchase, at an exercise price of \$5.75 per share, an additional number of shares of common stock equal to 20 percent of the shares purchased by such investor in the 2007 Offering. In the aggregate, these warrants entitle investors to purchase an additional 1,182,015 shares of common stock. The Company estimated the fair value of these warrants at \$4,724,169 using the Black-Scholes model, using an assumed risk-free rate of 4.71% and an expected life of 5 years, volatility of 93%, and a dividend yield of 0%. The total gross proceeds resulting from the 2007 Offering was approximately \$30.9 million, before deducting selling commissions and expenses.

The Company engaged Paramount BioCapital, Inc. (“Paramount”), Oppenheimer & Co. Inc., and Griffin Securities, Inc. (together, the “2007 Placement Agents”) as placement agents in connection with the 2007 Offering. In consideration for their services, the Company paid the 2007 Placement Agents aggregate cash commissions of \$1,630,800 (of which \$1,019,250 was paid to Paramount; see Note 5 - Related Party Transactions) and issued 5-year warrants to the 2007 Placement Agents and their designees to purchase an aggregate of 156,058 shares of the Company’s common stock at an exercise price of \$5.75 per share. In connection with the 2007 Offering, the Company also made cash payments of \$222,000 and issued 5-year warrants to purchase 21,244 shares of the Company’s common stock, at an exercise price of \$5.75 per share, to a financial consultant pursuant to the non-circumvention provision of a prior agency agreement. The Company estimated the fair value of these 177,302 warrants at \$708,624 using the Black-Scholes model, using an assumed risk-free rate of 4.71% and an expected life of 5 years, volatility of 93%, and a dividend yield of 0%.

Pursuant to the 2007 Offering, the Company agreed to use its best efforts to (i) file a registration statement covering the resale of the shares sold in the 2007 Offering and the common stock issuable upon exercise of the investor warrants and placement agent warrants issued in the 2007 Offering within 45 days following the closing date of the 2007 Offering, and (ii) use its reasonable commercial efforts to cause the registration statement to be effective within 120 days after such final closing date.

1. ORGANIZATION ...continued

With respect to each investor in the 2007 Offering, the Company also agreed to use its reasonable commercial efforts to cause the registration statement to remain effective until the earliest of (i) the date on which the investor may sell all of the shares and shares issuable upon exercise of the warrants then held by the investor pursuant to Rule 144(k) of the Securities Act of 1933 without regard to volume restrictions; and (ii) such time as all of the securities held by the investor and registered under the registration statement have been sold pursuant to a registration statement, or in a transaction exempt from the registration and prospectus delivery requirements of the Securities Act of 1933 under Section 4(1) thereof so that all transfer restrictions and restrictive legends are removed upon the consummation of such sale. The 2007 Placement Agents have been afforded equivalent registration rights as the investors in the 2007 Offering with respect to the shares issuable upon exercise of the placement agent warrants. Effective January 1, 2007, the Company adopted FASB Staff Position No. EITF 00-19-2, *Accounting for Registration Payment Arrangements* ("FSP EITF 00-19-2"). In accordance with FSP EITF 00-19-2, the Company accounts for obligations under registration payment arrangements in accordance with SFAS No. 5, *Accounting for Contingencies*. Instruments subject to registration payments are accounted for without regard to the contingent obligation to make registration payments. As a result, the Company has determined that no contingent loss exists based on its history of timely annual, quarterly and registration filings. The Company intends to continue the timely compliance with all SEC filing requirements, which will keep the Company current and the shares registered. On March 1, 2007, the Company filed a registration statement on Form S-3 with the Securities and Exchange Commission. The registration statement was declared effective on March 26, 2007, rendering the resale of the shares issued in the 2007 Offering registered under the Securities Exchange Act of 1933 and no penalty was recorded.

On May 3, 2006, pursuant to subscription agreements, the Company and certain institutional and other accredited investors, the Company completed the sale of an aggregate of 7,991,256 shares of the Company's common stock at a price of \$4.63 per share in a private placement (the "2006 Offering"). In addition to the shares, the Company also issued to each investor a five-year warrant (each a "Warrant") to purchase, at an exercise price of \$5.56 per share, an additional number of shares of common stock equal to 30 percent of the shares purchased by such investor in the 2006 Offering. In the aggregate, these Warrants entitle investors to purchase an additional 2,397,392 shares of common stock. The Company estimated the fair value of these warrants at \$9,575,958 using the Black-Scholes model, using an assumed risk-free rate of 5.01% and an expected life of 5 years, volatility of 100%, and a dividend yield of 0%. The total gross proceeds resulting from the 2006 Offering was approximately \$37 million, before deducting selling commissions and expenses.

The Company engaged Paramount BioCapital, Inc. and Griffin Securities, Inc. (together, the "2006 Placement Agents") as co-placement agents in connection with the 2006 Offering. In consideration for their services, the Company paid the 2006 Placement Agents and certain selected dealers engaged by the 2006 Placement Agents and their designees aggregate cash commissions of \$2,589,966 (of which \$1,726,644 was paid to Paramount; see Note 5 - Related Party Transactions) and issued 7-year warrants to the 2006 Placement Agents and their designees to purchase an aggregate of 799,126 shares of the Company's common stock (10 percent of the Shares sold in the 2006 Offering) at an exercise price of \$5.09 per share (the "Placement Agent Warrants"). The Company estimated the fair value of these warrants at \$3,516,603 using the Black-Scholes model, using an assumed risk-free rate of 5.01% and an expected life of 7 years, volatility of 100% and a dividend yield of 0%. The Company made reimbursements of \$100,000 to the 2006 Placement Agents for their expenses incurred in connection with the 2006 Offering.

Pursuant to the Offering, the Company agreed to use its best efforts to (i) file a registration statement covering the resale of the Shares and the common stock issuable upon exercise of the Warrants and Placement Agent Warrants within 30 days following the closing date of the 2006 Offering, and (ii) use its reasonable commercial efforts to cause the registration statement to be effective within 120 days after such final closing date.

1. ORGANIZATION... continued

With respect to each investor in the 2006 Offering, the Company also agreed to use its reasonable commercial efforts to cause the registration statement to remain effective until the earliest of (i) the date on which the investor may sell all of the Shares and shares issuable upon exercise of the Warrants then held by the investor pursuant to Rule 144(k) of the Securities Act of 1933 without regard to volume restrictions; and (ii) such time as all of the securities held by the investor and registered under the Registration Statement have been sold pursuant to a registration statement, or in a transaction exempt from the registration and prospectus delivery requirements of the Securities Act of 1933 under Section 4(1) thereof so that all transfer restrictions and restrictive legends are removed upon the consummation of such sale. The Placement Agents have been afforded equivalent registration rights as the investors in the 2006 Offering with respect to the shares issuable upon exercise of the Placement Agent Warrants. Warrants issued in the 2006 Offering are classified as equity based on the determination that the penalty for failure to register is not uneconomic. On May 19, 2006, the Company filed a registration statement on Form S-3 with the Securities and Exchange Commission. The registration statement was declared effective on May 30, 2006, rendering the resale of the shares issued in the May 3, 2006 Offering registered under the Securities Exchange Act of 1933 and no penalties were recorded.

On August 3, 2005, the Company entered into an Agreement and Plan of Merger dated as of August 3, 2005 (the "Merger Agreement") with EasyWeb, Inc., a Delaware corporation ("EasyWeb"), and ZIO Acquisition Corp., a Delaware corporation and wholly-owned subsidiary of EasyWeb ("ZIO Acquisition"). EasyWeb was a company that was incorporated in September 1998 and had been in the business of designing, marketing, selling and maintaining customized and template turnkey sites on the Internet that are hosted by third parties. At the time of the Merger (as defined below), however, EasyWeb had no operating business and had limited assets and liabilities. Pursuant to the Merger Agreement, ZIO Acquisition merged with and into ZIOPHARM, with ZIOPHARM remaining as the surviving company and a wholly-owned subsidiary of EasyWeb (the "Merger"). In connection with the Merger, which was effective as of September 13, 2005, ZIO Acquisition ceased to exist and the surviving company changed its corporate name to ZIOPHARM, Inc. Based upon an Exchange Ratio, as defined in the Merger Agreement, in exchange for all of their shares of capital stock in ZIOPHARM, the ZIOPHARM stockholders received a number of shares of common stock of EasyWeb such that, upon completion of the Merger, the then-current ZIOPHARM stockholders held approximately 96.8% of the outstanding shares of common stock of EasyWeb on a fully-diluted basis. Upon completion of the Merger, EasyWeb ceased all of its remaining operations and adopted and continued implementing the business plan of ZIOPHARM. Further, effective upon the Merger, the then current officers and directors of EasyWeb resigned, and the then current officers and directors of ZIOPHARM were appointed officers and directors of EasyWeb. In conjunction with the Merger, ZIOPHARM made payments of approximately \$425,000 to certain affiliates of EasyWeb in the third quarter of 2005. Subsequently, on September 14, 2005, ZIOPHARM merged into EasyWeb, and EasyWeb changed its name to ZIOPHARM Oncology, Inc.

1. ORGANIZATION... continued

Although EasyWeb was the legal acquirer in the transaction, ZIOPHARM became the registrant with the Securities and Exchange Commission. Under generally accepted accounting principles, the transaction was accounted for as a reverse acquisition, whereby ZIOPHARM was considered the acquirer of EasyWeb for financial reporting purposes because ZIOPHARM's stockholders controlled more than 50% of the post-transaction combined entity, the management and the board were that of ZIOPHARM after the transaction, EasyWeb had no operating activity and limited assets and liabilities as of the transaction date, and the continuing operations of the entity are those of ZIOPHARM.

Accordingly, the equity of EasyWeb was adjusted to reflect a recapitalization of the stock and the equity of ZIOPHARM was adjusted to reflect a financing transaction with the proceeds equal to the net asset value of EasyWeb immediately prior to the Merger. The historical financial statements of ZIOPHARM became the historical financial statements of the Company. The historical stockholders' equity was retroactively restated to adjust for the exchange of shares pursuant to the Merger Agreement. All share and per share information included in the accompanying financial statements and notes give effect to the exchange, except as otherwise stated.

On June 6, 2005, the Company completed an offering (the "2005 Offering") of Series A Convertible Preferred Stock ("Series A Preferred Stock"). The Company issued 4,197,946 shares at \$4.31 for gross proceeds of approximately \$18.1 million. In connection with the 2005 Offering, the Company compensated Paramount, placement agent for the 2005 Offering, or its affiliates for its services through the payment of (a) cash commissions equal to 7% of the gross proceeds from the sale of the shares of Series A Preferred Stock, and (b) placement warrants to acquire 419,794 shares of Series A Preferred Stock (the "Series A Stock Warrants"), exercisable for a period of 7 years from the closing date at a per-share exercise price equal to 110% of the price per share sold in the 2005 Offering. These commissions are also payable on additional sales by the Company of securities (other than in a public offering) to investors introduced to the Company by Paramount during the twelve (12) month period subsequent to the final closing of the Offering. The Company also paid Paramount an expense allowance of \$50,000 to reimburse Paramount for its out-of-pocket expenses. Also, for a period of 36 months from the final Closing, Paramount has the right of first refusal to act as the placement agent for any private sale of the Company's securities. On September 13, 2005, the Series A Preferred Stock was converted to 4,197,946 of the company's common stock. Lastly, the Company has agreed to indemnify Paramount against certain liabilities, including liabilities under the Securities Act (see Note 5 - Related Party Transactions).

The Company valued the Series A Stock Warrants using the Black-Scholes model and recorded a charge of \$1,682,863 against additional paid-in capital. The Company has estimated the fair value of such warrants using the Black-Scholes model, using an assumed risk-free rate of 3.93% and expected life of 7 years, volatility of 134% and dividend yield of 0%. The net proceeds from the 2005 Offering were used for research and development, licensing fees and expenses, and for working capital and general corporate purposes.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Use of Estimates

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 and 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

Cash equivalents consist of short-term, highly liquid high-grade investments with a maturity of ninety days or less when purchased.

Concentrations of Credit Risk

Financial instruments which potentially subject the Company to concentrations of credit risk consist principally of cash and cash equivalents. The Company maintains cash accounts in commercial banks, which may, at times, exceed federally insured limits. The Company has not experienced any losses in such accounts. The Company believes it is not exposed to any significant credit risk on cash and cash equivalents.

Short-Term Investments

The Company accounts for its short-term investments in accordance with Statement of Financial Accounting Standards ("SFAS") No. 115, *Accounting for Certain Investments in Debt and Equity Securities*. The Company's investments, which are carried at fair value, consist of funds comprised of certificate of deposits with maturities over ninety days, totaling \$0 and \$1.6 million at December 31, 2007 and 2006, respectively.

Fair Value of Financial Instruments

The carrying amounts of cash equivalents, accounts payable and accrued expenses approximate their fair value because of their short-term nature. Short-term investments are carried at aggregate fair value.

Income Taxes

The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the Company's financial statements or tax returns. Deferred tax assets and liabilities are determined based upon the difference between the financial reporting basis and the tax basis of existing assets and liabilities using enacted tax rates expected to be in effect in the year(s) in which the differences are expected to reverse. A valuation allowance is provided against deferred tax assets if it is more likely than not that such assets will not be realized.

In July 2006, the Financial Accounting Standards Board issued Interpretation No. ("FIN") 48, *Accounting for Uncertainty in Income Taxes*. This Interpretation sets forth a recognition threshold and valuation method to recognize and measure an income tax position taken, or expected to be taken, in a tax return. The evaluation is based on a two-step approach. The first step requires an entity to evaluate whether the tax position would "more likely than not," based upon its technical merits, be sustained upon examination by the appropriate taxing authority. The second step requires the tax position to be measured at the largest amount of tax benefit that is greater than 50 percent likely of being realized upon ultimate settlement. In addition, previously recognized benefits from tax positions that no longer meet the new criteria would no longer be recognized. The application of this Interpretation will be considered a change in accounting principle with the cumulative effect of the change recorded to the opening balance of retained earnings in the period of adoption. This Interpretation was effective for the Company on January 1, 2007. Adoption of this new Standard did not have a material impact on our financial position, results of operations or cash flows (see Note 7 - Income Taxes).

Property and Equipment

Property and equipment are stated at cost. Depreciation and amortization are provided on the straight-line method over the estimated useful lives of the related assets, which is three to five years.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Research and Development Costs

Costs related to research and development are charged to expense when incurred. Such costs include proprietary research and development activities, purchased research and development, and expenses associated with research and development contracts, whether performed by the Company or contracted with independent third parties.

Accounting for Stock-Based Compensation

On January 1, 2006, the Company adopted Statement of Financial Accounting Standards No. 123(R), *Share-Based Payment* ("SFAS 123R"), using the modified prospective method, which results in the provision of SFAS 123R only being applied to the consolidated financial statements on a going-forward basis (that is, the prior period results have not been restated). Under the fair value recognition provisions of SFAS 123R, stock-based compensation cost is measured at the grant date based on the value of the award using the Black-Scholes Model and is recognized as expense over the service period. Previously, the Company had followed Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations which resulted in account for employee share options at their intrinsic value in the financial statements.

In November 2005, the FASB released the final FASB Staff Position No. SFAS 123(R)-3, *Transition Election Related to Accounting for the Tax Effects of Share-Based Payment Awards* ("FSP SFAS 123(R)-3"). Effective January 1, 2006, the Company adopted FSP SFAS 123(R)-3, which provides the Company the option to use the "short-cut method" for calculating the historical pool of windfall tax benefits upon adopting FAS 123(R).

The Company recognized the full impact of its share-based employee payment plans in the statements of operations for each of the years ended December 31, 2007 and December 31, 2006 under SFAS 123R and did not capitalize any such costs on the balance sheets. The Company recognized \$1,308,849 and \$2,776,408, of compensation expense related to vesting of stock options issued to employees during the year ended December 31, 2007 and 2006, respectively. In the year ended December 31, 2007, the company recognized \$9,247 of compensation expense related to vesting of restricted stock (see Note 9 - Stock Option Plan). The following table presents share-based compensation expense included in the Company's statements of operations:

	<u>For the year ended December 31, 2007</u>	<u>For the year ended December 31, 2006</u>
Research and development, including costs of research contracts	\$ 544,955	\$ 375,411
General and administrative	773,141	2,400,997
Share based employee compensation expense before tax	1,318,096	2,776,408
Income tax benefit	-	-
Net share-based employee compensation expense	<u>\$ 1,318,096</u>	<u>\$ 2,776,408</u>

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Accounting for Stock-Based Compensation... continued

The adoption of SFAS 123R resulted in incremental stock-based compensation expense which caused the Company's net loss to increase by \$1,308,849 and \$2,776,408 or \$0.07 and \$0.22 per share, for the years ended December 31, 2007 and 2006, respectively. The adoption had no impact on cash used in operating activities or cash provided by financing activities.

The Company had previously adopted the provisions of SFAS No. 123, *Accounting for Stock-Based Compensation* ("SFAS 123"), as amended by SFAS No. 148, *Accounting for Stock-Based Compensation - Transition and Disclosure*, through disclosure only. SFAS 123 required the measurement of the fair value of stock option or warrants granted to employees to be included in the statement of operations or alternatively, disclosed in the notes to the financial statements. The Company previously accounted for stock-based awards to employees using the intrinsic value method as prescribed by Accounting Principles Board ("APB") Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations, and had elected the disclosure-only alternative under SFAS 123. All stock-based awards to nonemployees were accounted for at their fair value in accordance with SFAS 123 and Emerging Issues Task Force ("EITF") 96-18, *Accounting for Equity Instruments that are Issued to Other than Employees for Acquiring, or in Conjunction with Selling, Goods or Services* ("EITF 96-18"). The Company had recorded the fair value of each stock option issued to non-employees as determined at the date of grant using the Black-Scholes option pricing model.

The following table illustrates the effect on net loss and earnings per share if the Company had applied the fair value recognition provisions of SFAS 123 to stock-based awards for the year ended December 31, 2005 and for the period from inception (September 9, 2003) to December 31, 2005:

	For the year ended December 31, 2005	For the period from inception (September 9, 2003) to December 31, 2005
Net loss:		
As reported	\$ (9,516,923)	\$ (15,364,356)
Stock-based compensation expense included in reported net loss	98,755	801,871
Stock-based compensation expense under the fair value-based method	(942,888)	(1,755,983)
Pro forma net loss	\$ (10,361,056)	\$ (16,318,468)
Basic and diluted net loss per share:		
As reported	\$ (2.32)	
Pro forma	\$ (2.53)	

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES...continued

Accounting for Stock-Based Compensation...continued

The fair value of each stock option is estimated at the date of grant using the Black-Scholes option pricing model. The estimated weighted-average fair value of stock options granted to employees in 2007, 2006, and 2005 was approximately \$2.66, \$4.10 and \$3.43 per share, respectively. The following table summarizes the assumptions used in the Black-Scholes option pricing model for the years ended December 31:

	2007	2006	2005
Expected life	5 years	5 years	5 years
Expected volatility	91-96%	92-102%	109-114%
Dividend yield	0%	0%	0%
Weighted-average risk-free interest rate	3.48-5.03%	4.53-5.02%	3.77-4.39%
Forfeiture rate	4.68%	0%	0%

Net Loss Per Share

Consistent with Statement of Financial Accounting Standards No. 128, *Earnings Per Share*, basic loss per share amounts are based on the weighted-average number of shares of common stock outstanding during the period. Diluted loss per share amounts are based on the weighted average number of shares of common stock and potentially dilutive common stock outstanding during the period. The impact of options, warrants, and non-vested restricted stock to purchase 7,906,659, 5,593,377, and 1,576,988 shares of common stock have been excluded from the calculation of diluted weighted-average share amounts as their inclusion would have been anti-dilutive for 2007, 2006, and 2005, respectively.

Recent Accounting Pronouncements

In September 2006, the FASB issued SFAS No. 157, *Fair Value Measurements* ("SFAS 157"). This Statement is effective for financial statements issued for fiscal years beginning after November 15, 2007. On February 6, 2008, the FASB announced it will issue a FASB Staff Position (FSP) to allow a one-year deferral of adoption of SFAS for nonfinancial assets and nonfinancial liabilities that are recognized at fair value on a nonrecurring basis. SFAS 157 provides a common fair value hierarchy for companies to follow in determining fair value measurements in the preparation of financial statements and expands disclosure requirements relating to how such fair value measurements were developed. SFAS 157 clarifies the principle that fair value should be based on the assumptions that the marketplace would use when pricing an asset or liability, rather than company specific data. The Company is currently assessing the impact that SFAS 157 will have on its results of operations and financial position.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Liabilities, Including an amendment of FASB Statement No. 115* ("SFAS 159"). This Statement permits entities to choose to measure many financial instruments and certain other items at fair value that are not currently required to be measured at fair value. SFAS 159 is effective as of the beginning of fiscal 2008. The Company has not yet assessed the effect, if any, that adoption of SFAS 159 will have on its results of operations and financial position. The Company expects that the adoption of this new standard will not have a material impact on our financial position, results of operations or cash flows.

In December 2007, the FASB issued SFAS No. 141 (revised 2007), *Business Combinations* ("SFAS 141(R)"). SFAS 141(R) expands the definition of a business combination and requires the fair value of the purchase price of an acquisition, including the issuance of equity securities, to be determined on the acquisition date. SFAS 141(R) also requires that all assets, liabilities, contingent considerations, and contingencies of an acquired business be recorded at fair value at the acquisition date. In addition, SFAS 141(R) requires that acquisition costs generally be expensed as incurred, restructuring costs generally be expensed in periods subsequent to the acquisition date, changes in accounting for deferred tax asset valuation allowances be expensed after the measurement period, and acquired income tax uncertainties be expensed after the measurement period. SFAS 141(R) is effective for fiscal years beginning after December 15, 2008 with early adoption prohibited. The Company expects that the adoption of this new standard will not have a material impact on our financial position, results of operations or cash flows.

In December 2007, the FASB issued Statement No. 160, *Noncontrolling Interests in Consolidated Financial Statements—an amendment of Accounting Research Bulletin No. 51* ("SFAS 160"). SFAS 160 requires a company to clearly identify and present ownership interests in subsidiaries held by parties other than the company in the consolidated financial statements within the equity section but separate from the company's equity. It also requires the amount of consolidated net income attributable to the parent and to the noncontrolling interest be clearly identified and presented on the face of the consolidated statement of income; changes in ownership interest be accounted for similarly, as equity transactions; and when a subsidiary is deconsolidated, any retained noncontrolling equity investment in the former subsidiary and the gain or loss on the deconsolidation of the subsidiary be measured at fair value. This statement is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. Earlier adoption is prohibited. The Company expects that the adoption of this new standard will not have a material impact on our financial position, results of operations or cash flows.

3. PROPERTY AND EQUIPMENT

Property and equipment at December 31, 2007 and 2006 consisted of the following:

	Estimated Useful Life (Years)	2007	2006
Office & Computer equipment	3	\$ 474,878	\$ 518,598
Software	3	324,855	63,913
Leasehold Improvements	3	225,798	163,878
Manufacturing Equipment	5	12,357	12,357
		<u>1,037,888</u>	<u>758,746</u>
Less - accumulated depreciation and amortization		(291,467)	(307,499)
		<u>\$ 746,421</u>	<u>\$ 451,247</u>

Depreciation and amortization expense was \$433,353, \$173,920, \$101,232, and \$742,458 for the years ended December 31, 2007, 2006, 2005, and for the period from inception (September 9, 2003) to December 31, 2007, respectively. In 2007, fixed assets with a cost of \$458,974 and accumulated depreciation of \$449,386 were retired resulting in a loss on retirement of \$9,588.

4. ACCRUED EXPENSES

Accrued expenses at December 31, 2007 and 2006 consisted of the following:

	2007	2006
Employee compensation	\$ 275,000	\$ 496,841
Professional services	123,952	107,737
Research and development consulting services	123,286	102,516
Clinical consulting services	1,506,011	518,712
Manufacturing services	1,225,714	773,019
Accrued vacation	35,517	22,094
Other	107,000	140,995
	<u>\$ 3,396,480</u>	<u>\$ 2,161,914</u>

5. RELATED PARTY TRANSACTIONS

The Company had engaged Paramount during 2005 to assist in placing shares of Series A Preferred Stock on a “best efforts” basis. Lindsay A. Rosenwald, M.D. is Chairman and Chief Executive Officer of Paramount. Dr. Rosenwald is also managing member of Horizon BioMedical Ventures, LLC (“Horizon”). On December 30, 2004, Horizon authorized the distribution of 2,428,911(4,848,376 pre-Merger) shares of common stock (such shares, the “Horizon Distributed Shares”), in equal installments of 1,214,456 (2,424,188 pre-Merger) shares of common stock to Mibars, LLC (“Mibars”) and to Dr. Rosenwald and his designees (the “Designated Shares”). The disposition of the Designated Shares will be subject to certain restrictions as agreed to among Dr. Rosenwald and Dr. Rosenwald’s designees. Among other things, under certain circumstances set forth in pledge agreements between Dr. Rosenwald and his designees, Dr. Rosenwald has the right to re-acquire the Designated Shares from his designees. As a result of those rights, Dr. Rosenwald may be deemed to be an affiliate of the Company.

In connection with the December 22, 2004 Option Agreement with Southern Research Institute (“SRI”), the Company entered into a Finders Agreement, dated December 23, 2004, with Paramount pursuant to which the Company has agreed to compensate Paramount, for services in connection with the Company’s introduction to SRI through the payment of (a) a cash fee of \$60,000 and (b) warrants to purchase 62,621 (125,000 pre-Merger) shares of the Company’s common stock at a price equal to \$4.75 (\$2.38 pre-Merger) per share. The Company has estimated the fair value of such warrants using the Black-Scholes model, using an assumed risk-free rate of 3.93%, and expected life of 7 years, volatility of 134% and dividend yield of 0%. In December 2004, the Company expensed the \$60,000 that was payable to Paramount and recognized compensation expense in the amount of \$251,037 for the issuance of the warrants.

In connection with the Series A Preferred Stock Offering, the Company and Paramount entered into an Introduction Agreement in January 2005, pursuant to which the Company had agreed to compensate Paramount for its services in connection with the Offering through the payment of (a) cash commissions equal to 7% of the gross proceeds from the sale of the shares of Series A Preferred Stock, and (b) placement warrants to acquire a number of shares of Series A Preferred Stock equal to 10% of the number of shares of Series A Preferred Stock issued in the Offering, exercisable for a period of 7 years from the Closing Date at a per Share exercise price equal to 110% of the price per Share sold in the Offering. These commissions are also payable on additional sales by the Company of securities (other than in a public offering) to investors introduced to the Company by Paramount during the twelve (12) month period subsequent to the final closing of the Offering. The Company also agreed to pay to Paramount a non-accountable expense allowance of \$50,000 to reimburse the Paramount for its out-of-pocket expenses. Also, for a period of 36 months from the final Closing, Paramount has the right of first refusal to act as the placement agent for the private sale of the Company’s securities. Lastly, the Company has agreed to indemnify Paramount against certain liabilities, including liabilities under the Securities Act.

In connection with the 2006 Offering, on May 3, 2006, the Company paid Paramount a cash commission equal to 7% of the gross proceeds from the sale of the Shares sold by Paramount in the 2006 Offering, resulting in a cash payment of approximately \$1,726,644. In addition, the Company issued 7-year warrants to the 2006 Placement Agents and their designees to purchase an aggregate of 799,126 shares (10 percent of the Shares sold in the Offering) of the Company’s common stock, of which 532,750 were issued to Paramount at an exercise price of \$5.09 per share.

On December 18, 2006 the Company paid Paramount a cash settlement of \$180,000 in exchange for Paramount’s agreement to terminate certain of its rights under the 2005 and 2004 agreements. This amount was expensed in the year ended December 31, 2006.

Mr. Timothy McNerney, who is a member of the Board of Directors of the Company, was a full-time employee of Paramount from 1992 through March 2007. In addition, Michael Weiser, a current member of the Board of Directors of the Company, and David M. Tanen, who was a member of the Board of Directors of the Company, were full-time employees of Paramount from July 1998 through November 2006, and July 1996 through August 2004, respectively. Mr. John Knox, our former Treasurer, is also a full-time Paramount employee.

In connection with the 2007 Offering, on February 23, 2007, the Company paid Paramount cash commissions equal to 6% of the gross proceeds from the sale of the shares sold by Paramount in the 2007 Offering, resulting in a cash payment of approximately \$1,019,250. In addition, the Company issued 5-year warrants to the placement agents in the 2007 Offering and their designees to purchase an aggregate of 177,302 shares (3% of the shares sold in the 2007 Offering) of the Company’s common stock at an exercise price of \$5.75 per share, of which 97,536 were issued to Paramount.

6. COMMITMENTS AND CONTINGENCIES

Lease Commitment

The Company has four various lease agreements for office space in three locations expiring in 2008, 2009, 2010, and 2012. The leases include payment increases over the term of the agreements. The total amount of the lease payments is being charged to expense using the straight-line method over the term of the agreement.

Future minimum lease payments under non-cancelable operating leases as of December 31, 2007, were as follows:

	Operating Leases
2008	\$ 485,477
2009	463,949
2010	287,319
2011	187,875
2012	128,250
	<u>\$ 1,552,870</u>

Total rent expense was approximately \$593,000, \$253,000, \$271,000, and \$1.2 million for the years ended December 31, 2007, 2006, 2005, and for the period from inception (September 9, 2003) to December 31, 2007, respectively.

License Agreements

Patent and Technology License Agreement—The University of Texas M. D. Anderson Cancer Center and the Texas A&M University System.

On August 24, 2004, the Company entered into a patent and technology license agreement with The Board of Regents of the University of Texas System, acting on behalf of The University of Texas M. D. Anderson Cancer Center and the Texas A&M University System (collectively, the “Licensors”). Under this agreement, the Company was granted an exclusive, worldwide license to rights (including rights to US and foreign patent and patent applications and related improvements and know-how) for the manufacture and commercialization of two classes of organic arsenicals (water- and lipid-based) for human and animal use. The class of water-based organic arsenicals includes darinaparsin.

In October 2004, the Company received a notice of allowance for US Patent Application No. 10/337969, entitled “S-dimethylarsino-thiosuccinic acid S-dimethylarsino-2-thiobenzoic acid S-(simethylarsino) glutathione as treatments for cancer.” The patent application claims both therapeutic uses and pharmaceutical compositions containing a novel class of organic arsenicals, including darinaparsin, for the treatment of cancer. In February 2006, we announced that a second organic arsenic case has been issued under U.S. Patent No. 6995188. This patent provides further coverage of cancer treatment using organic arsenic, including darinaparsin, in combination with other agents or therapies. Currently there are corresponding foreign applications relating to darinaparsin in various foreign countries.

6. COMMITMENTS AND CONTINGENCIES ...continued

As partial consideration for the license rights obtained, the Company made an upfront payment of \$125,000 and granted the Licensors 250,487 (500,000 pre-Merger) shares of our common stock. The Company expensed the \$125,000 upfront payment and recognized research and development compensation expense of \$426,339 in connection with the issuance of the 250,487 shares of common stock in the year ended December 31, 2004. In addition, the Company issued options to purchase an additional 50,222 (100,250 pre-Merger) shares outside the 2003 Stock Option Plan for \$0.002 per share following the successful completion of certain clinical milestones. Upon the filing of an Investigation New Drug Application (“IND”) for darinaparsin in 2005, 12,555 (25,063 pre-Merger) shares vested and the Company recognized compensation expense of \$54,115. Upon the completion of dosing of the last patient for both phase I clinical trials in 2007, 25,111 (50,125 pre-Merger) shares vested and the Company recognized compensation expense of \$120,492. The remaining 12,556 (25,062 pre-Merger) shares will vest upon enrollment of the first patient in a multi-center pivotal clinical trial (i.e., a human clinical trial intended to provide the substantial evidence of efficacy necessary to support the filing of an approvable New Drug Application [“NDA”] for darinaparsin). The options were subject to accounting pursuant to EITF 96-18, and therefore are valued at the date which the milestones are achieved. In addition, the Licensors are entitled to receive certain milestone payments (the “Anderson Milestones”), including \$100,000 that was paid upon the commencement of phase I clinical trial for which the Company recognized the expense in the year ended December 31, 2005 and \$250,000 upon the dosing of the first patient in the Registrant-sponsored phase II clinical trial for darinaparsin which was recognized in the year ended December 31, 2006. The Company may be required to make additional payments upon achievement of certain other milestones, in varying amounts which on a cumulative basis could total up to \$4,850,000. In addition, the Licensors are entitled to receive royalty payments on sales from a licensed product should such a product be approved for commercial sale and sales of a licensed product be effected in the United States, Canada, the European Union or Japan. The Licensors also will be entitled to receive a portion of any fees that the Company may receive from a possible sublicense under certain circumstances. For at least each of the two years ended December 31, 2006 and 2007, the Company expensed \$100,000 for payments made to the Licensors to conduct scientific research. The Company will have the exclusive right to all intellectual property rights resulting from such research pursuant to the terms of the license agreement. These sponsored research agreements and any related extensions will expire in February 2008.

The license agreement also contains other provisions customary and common in similar agreements within the industry, such as the right to sublicense our rights under the agreement. However, if we sublicense our rights prior to the commencement of a pivotal study (i.e., a human clinical trial intended to provide the substantial evidence of efficacy necessary to support the filing of an approvable NDA), the Licensors will be entitled to receive a share of the payments we receive in exchange for the sublicense (subject to certain exceptions).

License Agreement with DEKK-Tec, Inc.

On October 15, 2004, the Company entered into a license agreement with DEKK-Tec, Inc., pursuant to which it was granted an exclusive, worldwide license to the second lead product candidate, palifosfamide. As part of the signing of license agreement with DEKK-Tec, the Company expensed a \$50,000 up-front payment in the year ended December 31, 2004.

6. COMMITMENTS AND CONTINGENCIES ...continued

In consideration for the license rights, DEKK-Tec is entitled to receive milestone payments upon the occurrence of certain achievements of certain milestones, in varying amounts which on a cumulative basis may total \$3,900,000. Of the aggregate milestone payments, most of the total amount will be creditable against future royalty payments, as referenced below. During the year ended December 31, 2006, the Company recorded a charge of \$100,000 for achieving phase II milestones. Additionally in 2004, the Company issued DEKK-Tec an option to purchase 27,616 shares of our common stock for \$0.02 per share. The options were subject to accounting pursuant to EITF 96-18, and therefore are valued at the date which the milestones are achieved. Upon the execution of the license agreement, 6,904 shares vested and were exercised in the fiscal year ended December 31, 2005 and resulted in a recorded charge of \$12,190 to research and development expense. In regard to these options, the Company has estimated the fair value of such options using the Black-Scholes model, using an assumed risk-free rate of 3.35%, and expected life of 5 years, volatility of 134% and dividend yield of 0%. The remaining options will vest upon certain milestone events, culminating with final FDA approval of the first NDA submitted by us (or by our sublicensee) for palifosfamide. DEKK-Tec is entitled to receive royalty payments on the sales of palifosfamide should it be approved for commercial sale.

Option Agreement with Southern Research Institute ("SRI")

On December 22, 2004, the Company entered into an Option Agreement with SRI (the "Option Agreement"), pursuant to which the Company was granted an exclusive option to obtain an exclusive license to SRI's interest in certain intellectual property, including exclusive rights related to certain isophosphoramidate mustard analogs (the "SRI Option").

Also on December 22, 2004, the Company entered into a Research Agreement with SRI pursuant to which the Company agreed to spend a sum not to exceed \$200,000 between the execution of the agreement and December 21, 2006, including a \$25,000 payment that we made simultaneously with the execution of the agreement, to fund research and development work by SRI in the field of isophosphoramidate mustard analogs (the "SRI Research Program"). Under the terms of the Option Agreement, the Company's exclusive right to exercise the SRI Option will expire sixty days after the termination or expiration of the SRI Research Program and the delivery of the reports required thereunder. The option agreement was exercised on February 13, 2007 and an annual payment of \$25,000 was made in the year ending December 31, 2007 for maintenance of this option agreement (see Note 5 - Related Party Transactions).

License Agreement with Baxter Healthcare Corporation

On November 3, 2006, the Company signed a definitive Asset Purchase Agreement (for indibulin) and License Agreement (to Baxter's proprietary nanosuspension technology) with affiliates of Baxter Healthcare Corporation. Indibulin is a novel anti-cancer agent that binds to tubulin, one of the essential proteins for chromosomal segregation, and targets mitosis like the taxanes and vinca alkaloids. It is available as both an oral and a proprietary nanosuspension intravenous form. Molecules that target mitosis and inhibit cell division (antimitotic agents) are a major focus of cancer research and they are among the most widely used anti-cancer drugs in oncology today. Among the more well known antimitotic drugs are the taxanes (paclitaxel, docetaxel) and the vinca alkaloids (vincristine, vinblastine). The terms of the agreement include an upfront cash payment of approximately \$1.125 million, which has been expensed as purchased research and development in the year ended December 31, 2006. In addition, \$15,000 was paid for annual patent and license maintenance fee and \$100,000 was paid for existing inventory during 2006. During the year ended December 31, 2007, the Company recorded an expense of \$625,000 related to the achievement of a milestone for the successful US IND application for indibulin and also paid an additional \$15,000 for the annual patent and license maintenance fee. In addition to the upfront costs, there will be additional milestone payments that could amount to approximately \$8 million in the aggregate and royalties on net sales. The purchase price includes the entire indibulin intellectual property portfolio as well as existing drug substance and capsule inventories.

Guarantees and indemnification Obligations

Certain officers and employees have agreements with the company that call for a guarantee bonus that is payable within 30 days after the employee's anniversary date. Certain officer and employees also have specific severance agreements. In conjunction with the 2005 Offering, the Company has agreed to indemnify Paramount against certain liabilities, including liabilities under the Securities Act. The Company has not recorded any expense or liabilities under FIN 45, *Guantor's Accounting and Disclosure Requirements for Guarantees, Including Indirect Guarantees of Indebtness of others—An Interpretation of FASB Statements No. 5, 57, and 107 and Rescission of FASB Interpretation No. 34*.

7. INCOME TAXES

The components of the net deferred tax asset (liability) are as follows:

	December 31, 2007	December 31, 2006
Net operating loss carryforwards	\$ 5,916,993	\$ 5,793,182
Start-up and organizational costs	20,517,671	6,132,679
Research and development credit carryforwards	1,190,809	703,276
Stock compensation	740,031	347,317
Accrued bonus	31,545	21,477
Depreciation	34,256	22,126
Other	245,625	129,551
Net deferred tax assets	28,676,930	13,149,608
Deferred tax asset valuation allowance	(28,676,930)	(13,149,608)
	<u>\$ —</u>	<u>\$ —</u>

Deferred income taxes reflect the net tax effects of temporary differences between the carrying amount of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. As of December 31, 2007 and 2006, the Company has net operating loss carryforwards of approximately \$14,625,558 and \$14,385,851, respectively, available to offset future federal and state taxable income to the extent permitted under the Internal Revenue Code ("IRC"), expiring in varying amounts through 2027. Under the IRC, certain substantial changes in the Company's ownership may limit the amount of net operating loss carryforwards that can be utilized in any one year to offset future taxable income.

The Company has provided a valuation allowance for the full amount of these net deferred tax assets, since it is more likely than not that these future benefits will not be realized. However, these deferred tax assets may be available to offset future income tax liabilities and expenses. The valuation allowance increased by \$15,527,322, primarily due to net operating loss carryforward, stock-based compensation, and the increase in research and development credits.

Income taxes using the federal statutory income tax rate differ from the Company's effective tax rate primarily due to the change in the valuation allowance on deferred tax assets.

The company adopted Financial Interpretation Number 48, "Accounting for Uncertain Tax Positions" on January 1, 2007. FIN 48 clarifies the accounting for uncertainty in income taxes recognized in an enterprise's financial statements in accordance with FASB Statement No. 109, "Accounting for Income Taxes." FIN 48 prescribes a recognition threshold and measurement of a tax position taken or expected to be taken in a tax return. The company did not establish any additional reserves for uncertain tax liabilities upon adoption of FIN 48. A summary of the company's adjustments to its uncertain tax positions in the current year are as follows:

Balance at January 1, 2007 (adoption of FIN 48)	134,363
Increase/Decrease for tax positions related to the current year	104,037
Increase/Decrease for tax positions related to prior years	-
Decreases for settlements with applicable taxing authorities	-
Decreases for lapses of statute of limitations	-
Balance at December 31, 2007	<u>238,400</u>

The Company has not recognized any interest and penalties in the statement of operations because of the Company's net operating losses and tax credits that are available to be carried forward. When necessary, the company will account for interest and penalties related to uncertain tax positions as part of its provision for federal and state income taxes. The company does not expect the amounts of unrecognized benefits will change significantly within the next twelve months.

The company is currently open to audit under the statute if limitations by the Internal Revenue Service and state jurisdictions for the years ended December 31, 1999 through 2006.

8. CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY

On April 26, 2006, the date of the Company's annual stockholders meeting, the shareholders approved the adoption of an Amended and Restated Certificate of Incorporation pursuant to which the Company has 280,000,000 shares of authorized capital stock, of which 250,000,000 shares are designated as common stock (par value \$.001 per share), and 30,000,000 shares are designated as preferred stock (par value \$.001 per share) (the "Preferred Stock").

Common Stock of ZIOPHARM Oncology, Inc.

As of December 31, 2007, the Company has issued and outstanding 21,298,964 shares of common stock and no shares of Preferred Stock.

8. CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY ...continued

In September 2003, the Company issued 2,000,000 (before the split discussed below and pre-Merger) shares of common stock at \$0.25 per share for gross proceeds of \$500,000.

In January 2004, the Company issued 18,000,000 (before the split discussed below and pre-Merger) shares of common stock at \$0.25 per share for gross proceeds of \$4,500,000.

In February 2004, the Company amended its articles of incorporation to provide for the combination of the Company's common stock, par value \$0.001 per share on a 1-for-4 basis (unless stated otherwise all other share and per share amounts presented reflect the reverse split).

On June 6, 2005, the Company completed the 2005 Offering (see Note 1). As a result of the Merger, all shares of the Series A Preferred Stock were automatically converted into the number of shares of common stock that the holders of Series A Preferred Stock would have received if their shares of Series A Preferred Stock had been converted into common stock immediately prior to the Merger.

On May 3, 2006, pursuant to subscription agreements between the Company and certain institutional and other accredited investors, the Company completed the sale of an aggregate of 7,991,256 shares of the Company's common stock at a price of \$4.63 per Share in the 2006 Offering. The total gross proceeds resulting from the 2006 Offering was approximately \$37 million, before deducting selling commissions and expenses.

On February 23, 2007, pursuant to subscription agreements between the Company and certain institutional and other accredited investors, the Company completed the sale of an aggregate of 5,910,049 shares of the Company's common stock at a price of \$5.225 per share in a private placement. The total gross proceeds resulting from the 2007 Offering was approximately \$30.9 million, before deducting selling commissions and expenses.

Series A Convertible Preferred Stock of ZIOPHARM, Inc.

All shares of Series A Preferred Stock have been converted into shares of common stock of the Company.

Preferred Stock of ZIOPHARM Oncology, Inc.

The Company's Board of Directors are authorized to designate any series of Preferred Stock, to fix and determine the variations in relative rights, preferences, privileges and restrictions as between and among such series.

9. STOCK OPTION PLAN

The Company has adopted the 2003 Stock Option Plan (the "Plan"), under which the Company had reserved for the issuance of 1,252,436 shares of its common stock. The Plan was approved by the Company's stockholders on December 21, 2004. On April 25, 2007 and April 26, 2006, the date of the Company's annual stockholders meetings, the Company's stockholders approved amendments to the Plan increasing the total shares reserved by 2,000,000 and 750,000 shares, respectively, for a total of 4,002,436 shares.

As of December 31, 2007 there were 2,797,000 shares that are issuable under its 2003 Stock Option Plan upon exercise of outstanding options to purchase common stock. As of December 31, 2007, the Company had issued to our employees outstanding options to purchase up to 2,316,576 shares of the Company's common stock. In addition, the Company has issued to our directors options to purchase up to 480,174 shares of the Company's common stock, as well as options to a consultant in connection with services rendered to purchase up to 250 shares of the Company's common stock. The Company had estimated the fair value of the options issued to the consultant using the Black-Scholes model, using an assumed risk-free rate of 4.23%, and expected life of 10 years, volatility of 134%, and dividend yield of 0%. The options issued to the consultant were valued at \$1,050 and were recorded as a charge to compensation expense in December 2004.

9. STOCK OPTION PLAN ...continued

Currently, stock options are granted with an exercise price equal to the closing market price of the Company's common stock on the day before the date of grant. Stock options to employees generally vest ratably over three years and have contractual terms of ten years. Stock options to directors generally vest ratably over two or three years and have contractual terms of ten years. 359,188 options granted, in 2006, to the Board of Directors and some members of management vested immediately. Stock options are valued using the Black-Scholes option valuation method and compensation is recognized based on such fair value over the period of vesting on a straight-line basis. The Company has also reserved an aggregate of 45,823 additional shares for issuance under options granted outside of the 2003 Stock Option Plan. The options were granted to The University of Texas M. D. Anderson Cancer Center and DEKK-Tec, Inc. (see Note 6 - Commitments and Contingencies). During the year ended December 31, 2007, the Company recorded a \$120,492 stock compensation expense in connection with the Company achieving a predetermined development milestone, which triggered the vesting of 25,111 of the options granted outside of the 2003 Stock Option Plan. The 25,111 options were exercised on August 13, 2007. Proceeds from this exercise amounted to \$50.22 and the intrinsic value of these options amounted to \$104,412.

Proceeds from the 2007, 2006, and 2005 exercises amounted to \$35,539, \$25,192, and \$4,676 respectively. The intrinsic value of these options amounted to \$32,336, \$7,702, and \$286,119 for years ended December 31, 2007, 2006, and 2005, respectively. The fair value of each option award is estimated on the date of grant using the Black-Scholes option-pricing model. Assumptions regarding volatility, expected term, dividend yield, and risk-free interest rate are required for the Black-Scholes model. Volatility and expected term assumptions are based on comparable Company's historical experience. The risk-free interest rate is based on a U.S. treasury note with a maturity similar to the option award's expected life.

Transactions under the Plan for the years ending December 31, 2007, 2006, and 2005 were as follows:

	Number of Shares	Weighted- Average Exercise Price	Weighted- Average Contractual Term (Years)	Aggregate Intrinsic Value
Outstanding, January 1, 2005	587,803	\$ 1.29		
Granted	542,389	3.60		
Exercised	(91,719)	0.05		
Canceled	(64,834)	3.29		
Outstanding, December 31, 2005	973,639	\$ 2.56		
Granted	988,180	5.42		
Exercised	(5,845)	4.31		
Canceled	(42,939)	4.50		
Outstanding, December 31, 2006	1,913,035	\$ 3.95		
Granted	1,101,250	3.63		
Exercised	(20,905)	1.70		
Canceled	(196,380)	4.36		
Outstanding, December 31, 2007	2,797,000	\$ 3.81	8.50	1,715,172
Options exercisable, December 31, 2007	1,382,999	\$ 3.56	7.49	1,208,610
Options available for future grants	1,100,317			

Stock options granted in the years ended December 31, 2007, 2006, and 2005 had weighted-average grant date fair values of \$2.66, \$4.10, and \$2.33, respectively. At December 31, 2007, total unrecognized compensation costs related to non-vested stock options outstanding amounted to \$3,952,833. The cost is expected to be recognized over a weighted-average period of 1.76 years.

9. STOCK OPTION PLAN ...continued

The following table summarizes information about stock options outstanding that are in the plan at December 31, 2007:

Exercise Price	Options Outstanding			Options Exercisable	
	Number Outstanding	Weighted-Average Remaining Contractual Life (Years)	Weighted-Average Exercise Price	Number Exercisable	Weighted-Average Exercise Price
\$0.08	268,653	6.07	\$ 0.08	268,653	\$.08
\$1.70	151,669	6.50	1.70	151,669	1.70
\$2.73	620,000	9.95	2.73	-	-
\$3.30-\$3.55	34,500	9.78	3.42	-	-
\$4.05	136,250	7.96	4.05	90,833	4.05
\$4.25-\$4.31	324,990	7.41	4.31	324,323	4.31
\$4.60-\$4.82	68,500	8.84	4.65	21,833	4.63
\$4.85	361,000	9.47	4.85	-	-
\$4.89-\$5.01	420,438	8.38	5.00	399,271	5.01
\$5.05-\$5.25	83,250	8.90	5.16	16,667	5.19
\$5.35-\$5.94	101,250	8.43	5.35	33,417	5.35
\$6.45-\$6.49	225,250	8.96	6.49	75,083	6.49
\$20.00	1,250	2.05	20.00	1,250	20.00
	<u>2,797,000</u>	<u>8.50</u>	<u>\$ 3.81</u>	<u>1,382,999</u>	<u>\$ 3.56</u>

Restricted Stock

During the year ended December 31, 2007, the Company issued restricted stock to several employees which will vest entirely on December 1, 2008. During the year ended December 31, 2007, \$9,247 of compensation expense was recognized. A summary of the status of non-vested restricted stock as of December 31, 2007 is as follows:

	Restricted Stock	Weighted-Average Grant Date Fair Value
Non-vested at December 31, 2006	—	\$ —
Granted	70,000	2.73
Vested	—	—
Canceled	—	—
Non-vested at December 31, 2007	<u>70,000</u>	<u>\$ 2.73</u>

As of December 31, 2007, there was \$181,853 of total unrecognized stock-based compensation expense related to non-vested restricted stock arrangements granted under the 2003 Plan. The expense is expected to be recognized over a weighted-average period of one year. No restricted stock was vested or cancelled in the year ended December 31, 2007.

10. WARRANTS

During 2004, the Company issued warrants to purchase 62,621 shares of the Company's common stock to Paramount as compensation for services rendered in connection with our entering into an option agreement with Southern Research Institute. In connection with the warrants issued, the Company recorded a charge of \$251,037 to general and administrative expense. The Company has estimated the fair value of such options using the Black-Scholes model, using an assumed risk-free rate of 3.93%, and expected life of 7 years, volatility of 134% and dividend yield of 0%.

In 2005, the Company also issued performance warrants to purchase 50,000 shares of the Company's common stock for services to be rendered to its investor relations consultant as compensation. In connection with the warrant issuance 12,500 shares are exercisable immediately and the Company recorded a charge of \$44,640 to general and administrative expense in the year ended December 31, 2005. The Company has estimated the fair value of such options using the Black-Scholes model, using an assumed risk-free rate of 4.39%, an expected life of 5 years, volatility of 109%, and dividend yield of 0%. The remaining 37,500 warrants were cancelled in the year ended December 31, 2006 due to performance objectives not being obtained at the expiration of agreement.

In connection with the 2005 Offering completed in June 2005, the Company compensated Paramount, placement agent for the Offering, or its affiliates for its services through the payment of placement warrants to acquire 419,794 (837,956 - pre-Merger) shares of Series A Preferred Stock (the "Series A Stock Warrants"), exercisable for a period of 7 years at a per-share exercise price equal to 110% of the price per share sold in the 2005 Offering. The Company valued the Series A Stock Warrants using the Black-Scholes model and recorded a charge of \$1,682,863 against additional paid-in capital. The Company estimated the fair value of the Series A Stock Warrants using the Black-Scholes model, using an assumed risk-free rate of 3.93% and expected life of 7 years, volatility of 134% and dividend yield of 0%.

In connection with the 2006 Offering completed on May 3, 2006, the Company issued warrants to purchase 2,397,392 shares of common stock to investors and 799,126 warrants to purchase common stock to the 2006 Placement Agents and their designees. The Company estimated the fair value of the warrants at \$9,575,958 and \$3,516,603, respectively, using the Black-Scholes model, using an assumed risk-free rate of 5.01% and an expected life of 5 and 7 years, volatility of 100% and a dividend yield of 0%. The fair value of the warrants was recorded as a permanent component of shareholders' equity.

On February 23, 2007, as part of the 2007 Offering, the Company issued warrants to purchase 1,182,015 shares of common stock to investors and 177,302 warrants to purchase common stock to the 2007 Placement Agents, their designees and a previously-engaged financial consultant. The Company estimated the fair value of the warrants at \$4,724,169 and \$708,624 respectively, using the Black-Scholes model, using an assumed risk-free rate of 4.71% and an expected life of 5 years, volatility of 93% and a dividend yield of 0%. The fair value of the warrants was recorded as a permanent component of shareholder's equity.

10. WARRANTS ...continued

The following is a summary of warrants outstanding as of December 31, 2007.

Number	Issued in connection with	Exercise Price	Expiration Date
62,621	Services performed	\$ 4.75	December 23, 2011
408,703	Placement warrants for services performed	\$ 4.75	May 31, 2012
12,500	Services performed	\$ 4.76	September 14, 2010
2,397,392	Investors warrants	\$ 5.56	May 3, 2011
799,126	Placement warrants for services performed	\$ 5.09	May 3, 2013
1,182,015	Investor Warrants	\$ 5.75	February 23, 2012
177,302	Placement warrants for services performed	\$ 5.75	February 23, 2012
<u>5,039,659</u>			

11. EMPLOYEE BENEFIT PLAN

The Company sponsors a qualified 401(k) Retirement Plan (the "Plan") under which employees are allowed to contribute certain percentages of their pay, up to the maximum allowed under Section 401(k) of the Internal Revenue Code. The Company does not presently make contributions to the Plan. Under the Plan employer contributions are discretionary and no contributions were made in the years ended December 31, 2007, 2006 and 2005.

Item 8. Changes in and Disagreements with Accountants on Accounting and Financial Disclosures

None.

Item 8A. Controls and Procedures

Under the supervision and with the participation of our management, including the Chief Executive Officer and Chief Financial Officer, we have evaluated the effectiveness of our disclosure controls and procedures as required by Exchange Act Rule 13a-15(b) as of the end of the period covered by this report. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer have concluded that these disclosure controls and procedures are effective.

REPORT OF MANAGEMENT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Our management is responsible for establishing and maintaining adequate internal control over financial reporting for the Company. Internal control over financial reporting is a process to provide reasonable assurance regarding the reliability of our financial reporting for external purposes in accordance with accounting principles generally accepted in the United States of America. Internal control over financial reporting includes maintaining records that in reasonable detail accurately and fairly reflect our transactions; providing reasonable assurance that transactions are recorded as necessary for preparation of our financial statements; providing reasonable assurance that receipts and expenditures of company assets are made in accordance with management authorization; and providing reasonable assurance that unauthorized acquisition, use or disposition of company assets that could have a material effect on our financial statements would be prevented or detected on a timely basis. Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our financial statements would be prevented or detected.

Management 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. Based on this evaluation, management concluded that the Company's internal control over financial reporting was effective as of December 31, 2007. There were no changes in our internal control over financial reporting during the quarter ended December 31, 2007 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 8B. Other Information

None.

PART III

Item 9. Directors, Executive Officers, Promoters and Control Persons; Compliance with Section 16(a) of the Exchange Act

Information in response to this Item is incorporated herein by reference to our definitive proxy statement to be filed pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this form 10-KSB.

Our Board of Directors adopted a Code of Business Conduct and Ethics to be applicable to all officers, directors and employees. The Code of Business Conduct and Ethics is intended to be designed to deter wrong-doing and promote honest and ethical behavior, full, fair, timely, accurate and understandable disclosure, and compliance with applicable laws. The Board adopted the Code of Business Conduct and Ethics in February 2006. A copy of the Code of Business Conduct and Ethics can be obtained and will be provided to any person without charge upon written request to the Company's President at the Company's headquarters address.

Item 10. Executive Compensation

Information in response to this Item is incorporated herein by reference to our definitive proxy statement to be filed pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this form 10-KSB.

Item 11. Security Ownership of Certain Beneficial Owners and Management

Information in response to this Item is incorporated herein by reference to our definitive proxy statement to be filed pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this form 10-KSB.

Item 12. Certain Relationships and Related Transactions

Information in response to this Item is incorporated herein by reference to our definitive proxy statement to be filed pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this form 10-KSB.

Item 13. Exhibits

The following exhibits, as required by Item 601 of Regulation S-B are filed as a part of this report:

Exhibit No.	Description of Document
2.1	Agreement and Plan of Merger among the Registrant (formerly "EasyWeb, Inc."), ZIO Acquisition Corp. and ZIOPHARM, Inc., dated August 3, 2005 (incorporated by reference to Exhibit 10.1 to the Registrant's Form 8-K filed August 9, 2005).
3.1	Amended and Restated Certificate of Incorporation, as filed with the Delaware Secretary of State on April 26, 2006 (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report of Form 8-K filed April 26, 2006).
3.2	Certificate of Merger dated September 13, 2005, relating to the merger of ZIO Acquisition Corp. with and into ZIOPHARM, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Form 8-K filed September 19, 2005).
3.3	Certificate of Ownership of the Registrant (formerly "EasyWeb, Inc.") dated as of September 14, 2005, relating the merger of ZIOPHARM, Inc. with and into the Registrant, and changing the Registrant's corporate name from EasyWeb, Inc. to ZIOPHARM Oncology, Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Form 8-K filed September 19, 2005).
3.4	Bylaws, as amended to date (incorporated by reference to Exhibit 3.3 to the Registrant's Form 8-K filed September 19, 2005).
4.1	Specimen common stock certificate. (incorporated by reference to Exhibit 4.1 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
4.2	Form of Warrant issued to placement agents in connection with ZIOPHARM, Inc. 2005 private placement (incorporated by reference to Exhibit 4.2 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
4.3	Schedule identifying holders of Warrants in the form filed as Exhibit 4.2 to this Report (incorporated by reference to Exhibit 4.3 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
4.4	Warrant for the Purchase of Shares of common stock dated December 23, 2004. (incorporated by reference to Exhibit 4.4 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
4.5	Option for the Purchase of common stock dated October 15, 2004 and issued to DEKK-Tec, Inc. (incorporated by reference to Exhibit 4.5 to the Registrant's Annual Report on Form 10-KSB filed (SEC File No. 000-32353) March 20, 2006).
4.6	Form of Option for the Purchase of Shares of common stock dated August 30, 2004 and issued to The University of Texas M. D. Anderson Cancer Center. (incorporated by reference to Exhibit 4.6 to the Registrant's Annual Report on Form 10-KSB filed [SEC File No. 000-32353] March 20, 2006).
4.7	Schedule identifying material terms of Options for the Purchase of Shares of common stock in the form filed as Exhibit 4.6 to this Report. (incorporated by reference to Exhibit 4.7 to the Registrant's Annual Report on Form 10-KSB filed [SEC File No. 000-32353] March 20, 2006).
4.8	Form of common stock Purchase Warrant issued to investors in connection with ZIOPHARM Oncology, Inc. 2006 private placement (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report of Form 8-K filed May 3, 2006).
4.9	Form of common stock Purchase Warrant issued to placement agents in connection with ZIOPHARM Oncology, Inc. 2006 private placement (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report of Form 8-K filed May 3, 2006).
4.10	Form of Warrant to Purchase Common Stock issued to investors in connection with ZIOPHARM Oncology, Inc. February 2007 private placement (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report of Form 8-K filed February 26, 2007).

Exhibit No.	Description of Document
4.11	Form of Warrant to Purchase Common Stock issued to placement agents in connection with ZIOPHARM Oncology, Inc. February 2007 private placement (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report of Form 8-K filed February 26, 2007).
10.1	2003 Stock Incentive Plan (incorporated by reference to Exhibit 10.1 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
10.2	Amendment No. 1 to 2003 Stock Incentive Plan of ZIOPHARM Oncology, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed April 26, 2006).
10.3	Amendment No. 2 to 2003 Stock Incentive Plan of ZIOPHARM Oncology, Inc. (incorporated by reference to Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-QSB filed May 2, 2007).
10.4	Employment Agreement dated January 8, 2004, between the Registrant and Dr. Jonathan Lewis (incorporated by reference to Exhibit 10.2 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
10.5	Employment Agreement Extension dated December 21, 2006, between the Registrant and Dr. Jonathan Lewis (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed December 26, 2007).
10.6	Employment Agreement dated as of January 8, 2008 by and between the Registrant and Dr. Jonathan Lewis.
10.7	Employment Agreement dated July 21, 2004, between the Registrant and Richard Bagley (incorporated by reference to Exhibit 10.4 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
10.8	Employment Agreement Extension dated June 18, 2007 by and between the Registrant and Richard Bagley (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed June 19, 2007).
10.9	Patent and Technology License Agreement dated August 24, 2004, among ZIOPHARM, Inc. (predecessor to the Registrant), the Board of Regents of the University of Texas System on behalf of the University of Texas M.D. Anderson Cancer Center and the Texas A&M University System (incorporated by reference to Exhibit 10.5 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).++
10.10	License Agreement dated October 15, 2004, between ZIOPHARM, Inc. (predecessor to the Registrant) and DEKK-Tec, Inc. (incorporated by reference to Exhibit 10.6 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).++
10.11	Form of subscription agreement between the ZIOPHARM, Inc. and the investors in ZIOPHARM, Inc.'s private placement (incorporated by reference to Exhibit 10.7 to the Registrant's Registration Statement on Form SB-2 [SEC File No. 333-129020] filed October 14, 2005).
10.12	Form of Incentive Stock Option Agreement granted under 2003 Stock Option Plan (incorporated by reference to Exhibit 10.7 to the Registrant's Annual Report on Form 10-KSB [SEC File No. 000-32353] filed March 20, 2006).
10.13	Form of Employee Non-Qualified Stock Option Agreement granted under 2003 Stock Option Plan (incorporated by reference to Exhibit 10.8 to the Registrant's Annual Report on Form 10-KSB [SEC File No. 000-32353] filed March 20, 2006).
10.14	Form of Director Non-Qualified Stock Option Agreement granted under 2003 Stock Option Plan (incorporated by reference to Exhibit 10.9 to the Registrant's Annual Report on Form 10-KSB [SEC File No. 000-32353] filed March 20, 2006).
10.15	Form of Subscription Agreement by and between ZIOPHARM Oncology, Inc. and investors in the ZIOPHARM Oncology, Inc. 2006 private placement (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report of Form 8-K filed May 3, 2006).
10.16	Asset Purchase Agreement dated November 3, 2006 by and among Baxter Healthcare S.A., Baxter International, Inc., Baxter Oncology GmbH and ZIOPHARM Oncology, Inc. (incorporated by reference to Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-QSB filed November 13, 2006).++

Exhibit No.	Description of Document
10.17	License Agreement dated November 3, 2006 by and among Baxter Healthcare S.A., Baxter International, Inc. and ZIOPHARM Oncology, Inc. (incorporated by reference to Exhibit 10.1 to the Registrant's Quarterly Report on Form 10-QSB filed November 13, 2006). ++
10.18	Form of Securities Purchase Agreement by and between ZIOPHARM Oncology, Inc. and investors in the ZIOPHARM Oncology, Inc. February 2007 private placement (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report of Form 8-K filed February 26, 2007).
10.19	Form of Registration Rights Agreement by and between ZIOPHARM Oncology, Inc. and investors in the ZIOPHARM Oncology, Inc. February 2007 private placement (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report of Form 8-K filed February 26, 2007).
10.20	Form of Restricted Stock Agreement (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report of Form 8-K filed December 18, 2007).
23.1	Consent of Independent Registered Public Accounting Firm - Vitale, Caturano & Company, Ltd.
31.1	Certification of Chief Executive Officer pursuant to Securities Exchange Act Rule 13a-15(e)/15d-15(e) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Chief Financial Officer pursuant to Securities Exchange Act Rule 13a-15(e)/15d-15(e) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

++ Confidential treatment has been granted as to certain portions of this exhibit pursuant to Rule 406 of the Securities Act of 1933, as amended, or Rule 24b-2 of the Securities Exchange Act of 1934, as amended.

Item 14. Principal Accountant Fees and Services

Information in response to this Item is incorporated herein by reference to our definitive proxy statement to be filed pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this form 10-KSB.

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SIGNATURES

In accordance with Section 13 or 15(d) of the Exchange Act, the registrant caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ZIOPHARM ONCOLOGY, INC.

Date: February 21, 2008

By: /s/ Jonathan Lewis
Jonathan Lewis
Chief Executive Officer
(Principal Executive Officer)

Date: February 21 , 2008

By: /s/ Richard Bagley
Richard Bagley
President, Chief Financial Officer, Treasurer and
Chief Operating Officer
(Principal Financial and Accounting Officer)

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In accordance with the Securities Exchange Act, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	Title	Date
<u>/s/ Jonathan Lewis</u> Jonathan Lewis	Director and Chief Executive Officer (Principal Executive Officer)	February 21, 2008
<u>/s/ Richard Bagley</u> Richard Bagley	Director, President, Chief Financial Officer, Treasurer and Chief Operating Officer (Principal Accounting and Financial Officer)	February 21, 2008
<u>/s/ Murray Brennan</u> Murray Brennan	Director	February 21, 2008
<u>/s/ James Cannon</u> James Cannon	Director	February 21, 2008
<u>/s/ Timothy McInerney</u> Timothy McInerney	Director	February 21, 2008
<u>/s/ Wyche Fowler, Jr.</u> Wyche Fowler, Jr.	Director	February 21, 2008
<u>/s/ Gary S. Fragin</u> Gary S. Fragin	Director	February 21, 2008
<u>/s/ Michael Weiser</u> Michael Weiser	Director	February 21, 2008

EXHIBIT INDEX

Exhibit No.	Description of Document
10.6	Employment Agreement dated as of January 8, 2008 by and between the Registrant and Dr. Jonathan Lewis.
23.1	Consent of Independent Registered Public Accounting Firm - Vitale, Caturano & Company, Ltd.
31.1	Certification of Chief Executive Officer pursuant to Securities Exchange Act Rule 13a-15(e)/15d-15(e) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Chief Financial Officer pursuant to Securities Exchange Act Rule 13a-15(e)/15d-15(e) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

EMPLOYMENT AGREEMENT

AGREEMENT (the “**Agreement**”), dated as of January 8, 2008, by and between ZIOPHARM Oncology, Inc., a Delaware corporation with principal executive offices at 1180 Avenue of the Americas, New York, NY 10036 (the “**Company**”), and JONATHAN J. LEWIS, M.D., Ph.D., residing at 1522 Fairfield Beach Road, Fairfield, CT 06824 (the “**Executive**”).

WITNESSETH:

WHEREAS, the Company desires to employ the Executive as Chief Executive Officer of the Company, and the Executive desires to serve the Company in that capacity, upon the terms and subject to the conditions contained in this Agreement;

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto hereby agree as follows:

1. Employment.

(a) Services. During the Term (as hereinafter defined), the Executive will be employed by the Company as its Chief Executive Officer. The Executive will report directly to the Board of Directors of the Company (the "Board") and shall perform such duties assigned by the Board as are consistent with his position as Chief Executive Officer (the “Services”). The Executive agrees to perform such duties faithfully, to use his best efforts to advance the best interests of the Company, to devote substantially all of his business time, attention and energies to the business of the Company, and while he remains employed, not to engage in any other business activity, whether or not such business activity is pursued for gain, profit or other pecuniary advantage, that will interfere with the performance by the Executive of his duties hereunder or that will adversely affect, or reflect negatively upon, the Company; provided, however, that the Executive may engage in the following activities to the extent that such activities, individually or collectively, do not interfere with the performance of the Executive’s duties and responsibilities hereunder: (A) fulfilling civic responsibilities, (B) attending to personal financial matters, (C) responding to inquiries from patients and their physicians, (D) serving as an expert witness in cases involving Sarcoma, (E) giving and attending academic lectures in connection with the Executive’s affiliation with the Yale Medical School, the Yale School of Management (Yale’s business school), and the National Academy of Sciences, (F) writing and editing medical, scientific and business textbooks, (G) serving as a director of Delcath Systems, Inc., the Sarcoma Foundation of America, and the Police Organization Providing Peer Assistance (POPPA), Inc. and (H) engaging in such other activities as the Board may approve from time to time.

(b) Acceptance. Executive hereby accepts such employment and agrees to render the Services.

2. Term.

The Executive's employment under this Agreement (the “Term”) shall commence as of the Effective Date (as hereinafter defined) and shall continue for a term of three (3) years, unless sooner terminated pursuant to Section 9 of this Agreement. Notwithstanding anything to the contrary contained herein, the provisions of this Agreement governing protection of Confidential Information shall continue in effect as specified in Section 6 hereof and survive the expiration or termination hereof. The Term may be extended for additional one (1) year periods upon mutual written consent of the Executive and the Board.

3. Place of Performance.

The duties to be performed by the Executive hereunder shall be performed primarily at the executive offices of the Company in New York, New York, subject to reasonable travel requirements on behalf of the Company, or such other place as the Board may reasonably designate, subject to the provisions of Section 9(d) below. The Executive acknowledges that the Company's operations are conducted substantially at its offices in Boston, Massachusetts and that the Executive will be required to travel frequently to Boston, Massachusetts.

4. Directorship.

The Company shall use its best efforts to cause the Executive to be elected as a member of the Board throughout the Term and shall include him in the management slate for election as a director at every stockholders meeting during the Term at which his term as a director would otherwise expire. The Executive agrees to accept election, and to serve during the Term, as director of the Company, without any compensation therefor other than as specified in this Agreement.

5. Compensation. As full compensation for the performance by the Executive of his duties under this Agreement, the Company shall pay the Executive as follows:

(a) Base Salary. The Company shall pay Executive a salary (the "Base Salary") equal to Four Hundred Twenty Thousand Dollars (\$420,000) per year. Payment shall be made semi-monthly, on the fifteenth and the last day of each calendar month. The Board shall annually review the Base Salary to determine whether an increase in the amount thereof is warranted.

(b) Performance Bonus. The Executive shall receive a targeted performance bonus (the "**Performance Bonus**"), based on his performance as determined by the Board for each calendar year ending during the Term (each a "**Bonus Calculation Year**"). The target amount of the Performance Bonus shall be \$300,000, with the amount of the actual bonus payable each year determined in accordance with the provisions of **Schedule 5(b)** attached hereto. The amount so determined shall be payable within 30 days following each anniversary of the date of this Agreement during the Term, *provided that the Executive remains employed by the Company on such anniversary date.*

(c) Discretionary Bonus. At the sole discretion of the Board, the Executive shall be eligible to receive an additional annual bonus (the "**Discretionary Bonus**") in such amount as may be determined by the Board based upon his performance on behalf of the Company during each Bonus Calculation Year. The Discretionary Bonus, if any, shall be payable at such times and in such manner as the Board may determine in its sole discretion.

(d) Stock Options and Restricted Stock Awards. As additional compensation for the services to be rendered by the Executive pursuant to this Agreement, the Company shall grant the Executive an award of restricted Common Stock of the Company ("**Restricted Stock**"), which grant shall be effective as of the date of this Agreement. The Restricted Stock shall be governed by the terms of the Company's Stock Option Plan, as the same may be amended from time to time, and shall vest, if at all, in three equal annual installments on January 8, 2009, January 8, 2010, and January 8, 2011, subject in each case to the provisions of Section 10 below. In connection with such grant, the Executive shall enter into a Restricted Stock Agreement with the Company, which will incorporate the foregoing vesting schedule and the Restricted Stock provisions contained in Section 10 below. The Board shall annually review the equity awards previously granted to the Executive to determine whether an increase in the Executive's long-term equity incentive compensation is warranted, and the Executive shall be eligible to receive additional equity awards as determined by the Board in its sole discretion from time to time. Such additional awards may be in the form of additional Restricted Stock or options to purchase Common Stock of the Company ("**Stock Options**"), or both, as the Board may determine in its sole discretion.

(e) Expenses. The Company shall reimburse the Executive for all reasonable out of pocket expenses incurred by the Executive in furtherance of the business and affairs of the Company, including reasonable travel and entertainment (which shall include business-class travel, unless unavailable and then first-class travel, for trips requiring air time longer than two (2) hours and the use of car service for business-related activities), upon timely receipt by the Company of appropriate vouchers or other proof of the Executive's expenditures and otherwise in accordance with any expense reimbursement policy as may from time to time be adopted by the Company. The Company's expense reimbursement policy generally requires that application for reimbursement be made as soon as practicable after the expense is incurred, but in no event more than one year after the date of the expense. Reimbursements are made by the Company no less frequently than monthly.

(f) Life and Disability Insurance. The Company shall reimburse the Executive all premiums paid by the Executive on life insurance policies covering the Executive in amounts up to \$800,000 and disability insurance policies covering the Executive in amounts up to \$20,000 per month.

(g) Vacation. The Executive shall, during the Term, be entitled to a vacation of four (4) weeks per annum, in addition to holidays observed by the Company. The Executive shall not be entitled to carry any vacation forward to the next year of employment and shall not receive any compensation for unused vacation days.

(h) Other Benefits.

(i) The Executive shall be entitled to all rights and benefits for which he shall be eligible under any benefit or other plans (including, without limitation, dental, medical, medical reimbursement and hospital plans, pension plans, employee stock purchase plans, profit sharing plans, bonus plans and other so-called "fringe" benefits) as the Company shall make available to any of its senior executives from time to time.

(ii) The Company shall reimburse the Executives for his reasonable medical licensing fees and other professional dues and memberships and journal subscriptions. In addition, the Company shall reimburse the Executive up to \$10,000 per annum for costs associated with a consulting group retained by the Executive for the purpose of assisting the Executive corporate decision making. These expenses will be reimbursed in accordance with the expense reimbursement policy outlined in Section 5(e) above.

6. Confidential Information and Inventions.

(a) The Executive recognizes and acknowledges that in the course of his duties he is likely to receive confidential or proprietary information owned by the Company, its affiliates or third parties with whom the Company or any of such affiliates has an obligation of confidentiality. Accordingly, during and after the Term, the Executive agrees to keep confidential and not disclose or make accessible to any other person or use for any other purpose other than in connection with the fulfillment of his duties under this Agreement, any Confidential and Proprietary Information (as defined below) owned by, or received by or on behalf of, the Company or any of its affiliates. "Confidential and Proprietary Information" shall include, but shall not be limited to, confidential or proprietary scientific or technical information, data, formulas and related concepts, business plans (both current and under development), client lists, promotion and marketing programs, trade secrets, or any other confidential or proprietary business information relating to development programs, costs, revenues, marketing, investments, sales activities, promotions, credit and financial data, manufacturing processes, financing methods, plans or the business and affairs of the Company or of any affiliate or client of the Company. The Executive expressly acknowledges the trade secret status of the Confidential and Proprietary Information and that the Confidential and Proprietary Information constitutes a protectable business interest of the Company. The Executive agrees: (i) not to use any such Confidential and Proprietary Information for himself or others; and (ii) not to take any Company material or reproductions (including but not limited to writings, correspondence, notes, drafts, records, invoices, technical and business policies, computer programs or disks) thereof from the Company's offices at any time during his employment by the Company, except as required in the execution of the Executive's duties to the Company. The Executive agrees to return immediately all Company material and reproductions (including but not limited, to writings, correspondence, notes, drafts, records, invoices, technical and business policies, computer programs or disks) thereof in his possession to the Company upon request and in any event immediately upon termination of employment.

(b) Except in furtherance of the business of the Company, or otherwise with prior written authorization by the Company, the Executive agrees not to disclose or publish any of the Confidential and Proprietary Information, or any confidential, scientific, technical or business information of any other party to whom the Company or any of its affiliates owes an obligation of confidence, at any time during or after his employment with the Company. Nothing in the foregoing shall be construed to prevent the Executive from disclosing or using any Confidential or Proprietary Information that:

- disclosure;
- (i) Executive can evidence through written documentation was in the Executive's possession or control prior to the date of disclosure;
 - (ii) Executive can evidence through written documentation was in the public domain or enters into the public domain through no improper act by Executive
 - (iii) is approved for public release by written authorization of the Board;
 - (iv) is required to be disclosed by legal, administrative or judicial process; or
 - (v) is rightfully granted to Executive by sources independent of the Company, its officers, employees, agents, affiliates and consultants.

(c) The Executive agrees that all inventions, discoveries, improvements and patentable or copyrightable works ("**Inventions**") initiated, conceived or made by him, either alone or in conjunction with others, during the Term shall be the sole property of the Company to the maximum extent permitted by applicable law and, to the extent permitted by law, shall be "works made for hire" as that term is defined in the United States Copyright Act (17 U.S.C.A., Section 101). The Company shall be the sole owner of all patents, copyrights, trade secret rights, and other intellectual property or other rights in connection therewith. The Executive hereby assigns to the Company all right, title and interest he may have or acquire in all such Inventions; provided, however, that the Board may in its sole discretion agree to waive the Company's rights pursuant to this Section 6(c) with respect to any Invention that is not directly or indirectly related to the Company's business. The Executive further agrees to assist the Company in every proper way (but at the Company's expense) to obtain and from time to time enforce patents, copyrights or other rights on such Inventions in any and all countries, and to that end the Executive will execute all documents necessary:

- (i) to apply for, obtain and vest in the name of the Company alone (unless the Company otherwise directs) letters patent, copyrights or other analogous protection in any country throughout the world and when so obtained or vested to renew and restore the same; and
- (ii) to defend any opposition proceedings in respect of such applications and any opposition proceedings or petitions or applications for revocation of such letters patent, copyright or other analogous protection.

(d) The Executive acknowledges that while performing the services under this Agreement the Executive may locate, identify and/or evaluate patented or patentable inventions having commercial potential in the fields of pharmacy, pharmaceutical, biotechnology, healthcare, technology and other fields which may be of potential interest to the Company (the "**Third Party Inventions**"). The Executive understands, acknowledges and agrees that all rights to, interests in or opportunities regarding, all Third-Party Inventions identified by the Company, any of its officers, directors, employees (including the Executive), agents or consultants during the Term as being of potential interest to the Company shall be and remain the sole and exclusive property of the Company and the Executive shall have no rights whatsoever to such Third-Party Inventions and will not pursue for himself or for others any transaction relating to the Third-Party Inventions which is not on behalf of the Company.

- (e) The provisions of this Section 6 shall survive any termination of this Agreement.
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7. Non-Competition, Non-Solicitation and Non-Disparagement.

(a) The Executive understands and recognizes that his services to the Company are special and unique and that in the course of performing such services the Executive will have access to and knowledge of Confidential and Proprietary Information (as defined in Section 6) and the Executive agrees that, during the Term and for a period of twelve (12) months thereafter (subject to the provisions of Section 10(e) hereof), he shall not without the consent of the Company in any manner, directly or indirectly, on behalf of himself or any person, firm, partnership, joint venture, corporation or other business entity (“**Person**”), enter into or engage in any business which is engaged in any business directly or indirectly competitive with the Company’s Business (as defined below), either as an individual for his own account, or as a partner, joint venturer, owner, executive, employee, independent contractor, principal, agent, consultant, salesperson, officer, director or shareholder of a Person in a business competitive with the Company within the geographic area of the Company’s Business, which is deemed by the parties hereto to be worldwide. The Executive acknowledges that, due to the nature of the Company’s Business, and the importance to the Company’s Business of its Confidential and Proprietary Information, a violation of this Section 7(a) could cause substantial damage to the Company and its affiliates and, therefore, the Company has a strong legitimate business interest in protecting the continuity of its business interests and the restriction herein agreed to by the Executive narrowly and fairly serves such an important and critical business interest of the Company. For purposes of this Agreement, the “Company’s Business” shall mean the business or businesses set forth on the attached Schedule 7(a), which shall be amended from time to time upon the mutual written agreement of the parties, but which will automatically include the research, development and commercialization of any technologies that are licensed or otherwise acquired by the Company. Notwithstanding the foregoing, nothing contained in this Section 7(a) shall be deemed to prohibit the Executive from (i) acquiring or holding, solely for investment, publicly traded securities of any corporation, some or all of the activities of which are competitive with the business of the Company so long as such securities do not, in the aggregate, constitute more than three percent (3%) of any class or series of outstanding securities of such corporation.

(b) During the Term and for a period of twelve (12) months thereafter (subject to the provisions of Section 10(e) hereof), the Executive shall not, directly or indirectly, without the prior written consent of the Company:

(i) solicit or induce any employee of the Company to leave the employ of the Company; or hire for any purpose any employee of the Company or any employee who has left the employment of the Company within six months of the termination of such employee’s employment with the Company or at any time in violation of such employee’s non-competition agreement with the Company; or

(ii) solicit or accept employment or be retained by any Person who, at any time during the term of this Agreement, was an agent, client or customer of the Company where his position will be related to the Company’s Business; or

(iii) solicit or accept the business of any agent, client or customer of the Company with respect to products, services or investments similar to those provided or supplied by the Company.

(c) The Company and the Executive each agree that both during the Term and at all times thereafter, neither party shall directly or indirectly disparage, whether or not true, the name or reputation of the other party or any of its affiliates, including but not limited to, any officer, director, employee or stockholder owning greater than five percent (5%) of the Company’s outstanding Common Stock. This Section 7(c) shall not apply to (i) statements made by the Executive’s in performing his duties in the ordinary course as Chief Executive Officer (*e.g.*, employee evaluations and remarks made in private meetings of the Board) and (ii) statements made by the Executive under oath in a legal proceeding, including without limitation an investigation or administrative proceeding before any governmental agency or instrumentality with regulatory authority over the Company or its business.

(d) In the event that the Executive breaches any provisions of Section 6 or this Section 7 or there is a threatened breach, then, in addition to any other rights which the Company may have, the Company shall (i) be entitled, without the posting of a bond or other security, to injunctive relief to enforce the restrictions contained in such Sections and (ii) have the right to require the Executive to account for and pay over to the Company all compensation, profits, monies, accruals, increments and other benefits (collectively “**Benefits**”) derived or received by the Executive as a result of any transaction constituting a breach of any of the provisions of Sections 6 or 7 and the Executive hereby agrees to account for and pay over such Benefits to the Company.

(e) Each of the rights and remedies enumerated in Section 7(d) shall be independent of the others and shall be in addition to and not in lieu of any other rights and remedies available to the Company at law or in equity. If any of the covenants contained in this Section 7, or any part of any of them, is hereafter construed or adjudicated to be invalid or unenforceable, the same shall not affect the remainder of the covenant or covenants or rights or remedies which shall be given full effect without regard to the invalid portions. If any of the covenants contained in this Section 7 is held to be invalid or unenforceable because of the duration of such provision or the area covered thereby, the parties agree that the court making such determination shall have the power to reduce the duration and/or area of such provision and in its reduced form such provision shall then be enforceable. No such holding of invalidity or unenforceability in one jurisdiction shall bar or in any way affect the Company’s right to the relief provided in this Section 7 or otherwise in the courts of any other state or jurisdiction within the geographical scope of such covenants as to breaches of such covenants in such other respective states or jurisdictions, such covenants being, for this purpose, severable into diverse and independent covenants.

(f) In the event that an actual proceeding is brought in equity to enforce the provisions of Section 6 or this Section 7, the Executive shall not urge as a defense that there is an adequate remedy at law nor shall the Company be prevented from seeking any other remedies which may be available.

(g) The provisions of this Section 7 shall survive any termination of this Agreement.

8. Representations and Warranties by the Executive.

The Executive hereby represents and warrants to the Company that (a) the Executive has the full right, power and legal capacity to enter and deliver this Agreement and to perform his duties and other obligations hereunder; (b) this Agreement constitutes the legal, valid and binding obligation of the Executive enforceable against him in accordance with its terms; and (c) no approvals or consents of any persons or entities are required for the Executive to execute and deliver this Agreement or perform his duties and other obligations hereunder.

9. Termination. The Executive's employment hereunder shall be terminated upon the Executive's death and may be terminated as follows:

(a) The Executive's employment hereunder may be terminated by the Board for Cause. Any of the following actions by the Executive shall constitute "Cause":

(i) The willful misconduct, failure, disregard or refusal by the Executive to perform any of the material duties of his employment hereunder including, without limitation, insubordination with respect to written directions received by the Executive from the Board, provided, however, that the Executive shall have one (1) opportunity to cure any breach of this section 9(a)(i) within five (5) business days ("Cure Period") of written notice to the Executive;

(ii) Any willful, intentional or grossly negligent act by the Executive having the effect of injuring, in a material way (whether financial or otherwise and as determined in good faith by a majority of the Board), the business or reputation of the Company or any of its affiliates, including but not limited to, any officer, director, executive of the Company or any stockholder owning greater than five percent (5%) of the Company's outstanding Common Stock; provided, however, that the Executive shall be granted an opportunity to appear personally before the Board during its deliberations to explain the reasons for such conduct;

(iii) The Executive's conviction of any felony or a misdemeanor involving moral turpitude (including entry of a *nolo contendere* plea);

(iv) The determination by the Company, after a reasonable and good-faith investigation by the Company following a written allegation by another employee of the Company, that the Executive engaged in some form of harassment prohibited by law (including, without limitation, harassment that constitutes age, sex or race discrimination), unless the Executive's actions were specifically directed by the Board;

(v) Any misappropriation or embezzlement of the property of the Company or its affiliates;

(vi) Breach by the Executive of any of the provisions of Sections 6, 7 or 8 of this Agreement; and

(vii) Breach by the Executive of any provision of this Agreement other than those contained in Sections 6, 7 or 8 which is not cured by the Executive within thirty (30) days after notice thereof is given to the Executive by the Company.

(b) The Executive's employment hereunder may be terminated by the Board due to the Executive's Disability. For purposes of this Agreement, a termination for "**Disability**" shall occur upon rendering of a written termination notice by the Board after the Executive has been unable to substantially perform his duties hereunder for 90 or more consecutive days, or more than 120 days in any consecutive 12 month period, by reason of any physical or mental illness or injury. For purposes of this Section 9(b), the Executive agrees to make himself available and to cooperate in any reasonable examination by a reputable independent physician retained by the Company.

(c) The Executive's employment hereunder may be terminated by the Board (or its successor) upon the occurrence of a Change of Control. For purposes of this Agreement, "**Change of Control**" means (i) the acquisition, directly or indirectly, following the date hereof by any person (as such term is defined in Section 13(d) and 14(d)(2) of the Securities Exchange Act of 1934, as amended), in one transaction or a series of related transactions, of securities of the Company representing in excess of fifty percent (50%) or more of the combined voting power of the Company's then outstanding securities if such person (or his or its affiliate(s)) does not own in excess of 50% of such voting power on the date of this Agreement, or (ii) the future disposition by the Company (whether direct or indirect, by sale of assets or stock, merger, consolidation or otherwise) of all or substantially all of its assets in one transaction or series of related transactions (other than (i) a merger effected exclusively for the purpose of changing the domicile of the Company, (ii) financing activities in the ordinary course in which the Company sells its equity securities, or (iii) a transfer to a person or entity that, immediately after the transfer, is or is controlled by a person or entity that controlled the Company before the transfer, within the meaning of Section 1.409A-3(i)(5)(vii)(B) of the Treasury Regulations).

(d) The Executive's employment hereunder may be terminated by the Executive for Good Reason, *provided* that such termination occurs within two (2) years following the occurrence of an event of Good Reason (as defined below) and *provided, further*, that the Executive has provided the Board with written notice of an event of Good Reason within ninety (90) days following the date of its occurrence and the Company shall have failed to cure the event of Good Reason within thirty (30) days following the Board's receipt of such notice from the Executive. For purposes of this Agreement, "**Good Reason**" shall mean any of the following: (i) the assignment to the Executive of duties that constitute a material diminution in the Executive's position, responsibilities, titles or offices as described herein; (ii) any material reduction by the Company of the Executive's duties and responsibilities; (iii) any reduction by the Company of the Executive's compensation or benefits payable hereunder (it being understood that a reduction of benefits applicable to all employees of the Company, including the Executive, shall not be deemed a reduction of the Executive's compensation package for purposes of this definition); (iv) a material breach by the Company of this Agreement; (v) moving the primary place of business of the Executive to a location that is more than 60 miles from Fairfield, Connecticut; or (vi) upon a Change of Control (x) that results in the elimination of the Board or (y) in which representatives of the Board just prior to the event causing the Change of Control do not represent a majority of the Board immediately subsequent to the event causing the Change of Control.

10. Compensation Following Termination.

(a) If the Executive's employment is terminated as a result of his death or Disability, the Company shall pay to the Executive or to the Executive's estate, as applicable, his Base Salary for a period of one year following the date of termination and any accrued but unpaid Performance Bonus, Discretionary Bonus and expense reimbursement amounts for expense incurred through the date of his Death or Disability. All Stock Options and Restricted Stock that are scheduled to vest by the end of the calendar year in which such termination occurs shall be accelerated and deemed to have vested as of the termination date. Any Stock Options that have vested (or been deemed pursuant to the immediately preceding sentence to have vested) as of the date of the Executive's termination shall remain exercisable for a period of 90 days. All Stock Options and Restricted Stock that have not vested as of the date of termination shall be deemed to have expired as of such date.

(b) If the Executive's employment is terminated by the Board for Cause, then the Company shall pay to the Executive his Base Salary through the date of his termination and any expense reimbursement amounts for expense incurred through the date of termination. The Executive shall have no further entitlement to any other compensation or benefits from the Company. All Stock Options and Restricted Stock that have not vested as of the date of termination shall be deemed to have expired as of such date. Any Stock Options that have vested as of the date of the Executive's termination for Cause shall remain exercisable for a period of 90 days.

(c) If the Executive's employment is terminated by the Company (or its successor) without Cause and either (i) within eighteen (18) months following the occurrence of a Change of Control or (ii) prior to and in connection with the occurrence of a Change in Control, then the Company (or its successor, as applicable) shall continue to pay to the Executive his Base Salary and Benefits for a period of two years following such termination of employment, as well as any expense reimbursement amounts for expenses incurred through the date of termination. In addition, the Company shall pay to the Executive the Performance Bonus that would have been payable for the Bonus Calculation Year in which termination of his employment occurs. For this purpose, the amount of Performance Bonus shall be the *greater of* (x) the amount determined pursuant to **Schedule 5(b)** or (y) the average of the amounts payable to the Executive as Performance Bonus or Guaranteed Bonus (as determined under the Employment Agreement dated as of January 8, 2004 by and between the Executive and the Company's predecessor) for the two years immediately preceding the year of termination of the Executive's employment. All Stock Options and Restricted Stock that are scheduled to vest by the end of the calendar year in which such termination occurs shall be accelerated and deemed to have vested as of the termination date. Any Stock Options that have vested (or been deemed pursuant to the immediately preceding sentence to have vested) as of the date of the Executive's termination shall remain exercisable for a period of 90 days.

(d) If the Executive's employment is terminated by the Company without Cause other than as a result of the Executive's death or Disability and other than for reasons specified in Section 10(c), or if the Executive's employment is terminated by the Executive for Good Reason, then the Company shall continue to pay to the Executive his Base Salary and Benefits for a period of one year following such termination, as well as any expense reimbursement amounts for expenses incurred through the date of termination. In addition, the Company shall pay to the Executive a portion of the Performance Bonus that would have been payable for the Bonus Calculation Year in which termination of his employment occurs, which portion shall be determined *pro rata* based on the number of days in such Bonus Calculation Year on which the Executive was employed by the Company. For this purpose, the amount of Performance Bonus shall be determined pursuant to **Schedule 5(b)**, *provided* that all performance targets shall be deemed to have been met for the bonus calculation year. All Stock Options and Restricted Stock scheduled to vest by the end of the calendar year in which such termination occurs shall be accelerated and deemed to have vested as of the termination date. Any Stock Options that have vested (or been deemed pursuant to this Section 10(d)) as of the date of the Executive's termination shall remain exercisable for a period of 90 days.

(e) Following expiration and non-renewal of the Term, should the Company in its sole discretion require that the Executive continue to comply with the terms of Section 7(a) or Section 7(b) hereof, or both, the Company shall pay the Executive his Base Salary and Performance Bonus for a period of one year following expiration of the Term. For this purpose, the amount of Performance Bonus shall be the average of the amounts payable to the Executive as Performance Bonus for the two Bonus Calculation Years immediately preceding the expiration of the Term.

(f) This Section 10 sets forth the only obligations of the Company with respect to the termination of the Executive's employment with the Company, and the Executive acknowledges that, upon the termination of his employment, he shall not be entitled to any payments or benefits which are not explicitly provided in Section 10.

(g) Upon termination of the Executive's employment hereunder for any reason, the Executive shall be deemed to have resigned as director of the Company, effective as of the date of such termination.

(h) Amounts payable to the Executive pursuant to Sections 10(a), 10(c) 10(d), or 10(e) hereof shall only be paid following the Executive's separation from service with the Company. The time for payment of amounts due following the Executive's separation from service pursuant to this Section 10 shall be determined in accordance with the Company's regular payroll and bonus payment practices, subject to the provisions of Section 409A of the Internal Revenue Code of 1986, as amended, and the Treasury Regulations promulgated thereunder. Payments of Base Salary following separation from service shall be made semi-monthly at the same times as, and in accordance with, the Company's regular payroll payments. Payments for Performance Bonus, Discretionary Bonus or expense reimbursements accrued with respect to periods of service completed prior to the Executive's separation from service, but unpaid at the time of termination of employment, shall be due and payable at the same times as they otherwise would be due in accordance with the Company's regular bonus payment practices (*i.e.*, Performance Bonus within 30 days following the end of the Bonus Calculation Year; Discretionary Bonus within 2 months following the end of a calendar year for which bonus is granted), and payments in lieu of Performance Bonus for the Bonus Calculation Year in which termination of employment occurs or for any Bonus Calculation Year following termination of employment, payable pursuant to Section 10(c), 10(d), or 10(e) above, shall be payable either (i) at the same time as they otherwise would be due in accordance with this Agreement if the Executive's employment had not terminated, or (ii) on the day following the date that is six (6) months after the date of the Executive's separation from service, whichever is later. Notwithstanding any other provision of this Agreement, no amount of Base Salary, Performance Bonus, and Discretionary Bonus payable to the Executive by reason of the Executive's termination of his employment pursuant to Section 9(d) above, other than a termination by reason of Section 9(d)(vi), and no amount in excess of \$420,000 payable following the Executive's separation from service for any reason shall be paid earlier than the day following the date that is six (6) months after the date of the Executive's separation from service with the Company. For purposes of this section 10(h), the term "separation from service" shall have the meaning set forth in Section 1.409A-1(h)(1) of the Treasury Regulations, and the Executive shall be deemed to be a "key employee" for purposes of such Treasury Regulations.

(i) The provisions of this Section 10 shall survive any termination of this Agreement.

11. Miscellaneous.

(a) **Withholding.** The Company shall withhold from all amounts payable to the Executive under this Agreement all applicable federal, state and local income taxes, Social Security contributions and such other payroll taxes and deductions as may be required by law.

(b) This Agreement shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York, without giving effect to its principles of conflicts of laws.

(c) Any dispute arising out of, or relating to, this Agreement or the breach thereof (other than Sections 6 or 7 hereof), or regarding the interpretation thereof, shall be finally settled by arbitration conducted in New York City in accordance with the Employment Dispute Rules of the American Arbitration Association then in effect before a single arbitrator appointed in accordance with such rules. Judgment upon any award rendered therein may be entered and enforcement obtained thereon in any court having jurisdiction. The arbitrator shall have authority to grant any form of appropriate relief, whether legal or equitable in nature, including specific performance. For the purpose of any judicial proceeding to enforce such award or incidental to such arbitration or to compel arbitration and for purposes of Sections 6 and 7 hereof, the parties hereby submit to the non-exclusive jurisdiction of the Supreme Court of the State of New York, New York County, or the United States District Court for the Southern District of New York, and agree that service of process in such arbitration or court proceedings shall be satisfactorily made upon it if sent by registered mail addressed to it at the address referred to in paragraph (g) below. The costs of such arbitration shall be borne proportionate to the finding of fault as determined by the arbitrator. Judgment on the arbitration award may be entered by any court of competent jurisdiction.

(d) This Agreement shall be binding upon and inure to the benefit of the parties hereto, and their respective heirs, legal representatives, successors and permitted assigns.

(e) This Agreement, and the Executive's rights and obligations hereunder, may not be assigned by the Executive. The Company may assign its rights, together with its obligations, hereunder in connection with any sale, transfer or other disposition of all or substantially all of its business or assets and shall cause the acquirer to assume all of its obligations under this Agreement.

(f) This Agreement cannot be amended orally, or by any course of conduct or dealing, but only by a written agreement signed by the parties hereto.

(g) The failure of either party to insist upon the strict performance of any of the terms, conditions and provisions of this Agreement shall not be construed as a waiver or relinquishment of future compliance therewith, and such terms, conditions and provisions shall remain in full force and effect. No waiver of any term or condition of this Agreement on the part of either party shall be effective for any purpose whatsoever unless such waiver is in writing and signed by such party.

(h) All notices, requests, consents and other communications, required or permitted to be given hereunder, shall be in writing and shall be delivered personally or by an overnight courier service or sent by registered or certified mail, postage prepaid, return receipt requested, to the parties at the addresses set forth on the first page of this Agreement, and shall be deemed given when so delivered personally or by overnight courier, or, if mailed, five days after the date of deposit in the United States mails. Either party may designate another address, for receipt of notices hereunder by giving notice to the other party in accordance with this Section 11(g).

(i) This Agreement sets forth the entire agreement and understanding of the parties relating to the subject matter hereof, and supersedes all prior agreements, arrangements and understandings, written or oral, relating to the subject matter hereof. No representation, promise or inducement has been made by either party that is not embodied in this Agreement, and neither party shall be bound by or liable for any alleged representation, promise or inducement not so set forth.

(j) As used in this Agreement, "affiliate" of a specified Person shall mean and include any Person controlling, controlled by or under common control with the specified Person.

(k) The section headings contained herein are for reference purposes only and shall not in any way affect the meaning or interpretation of this Agreement.

(l) This Agreement may be executed in any number of counterparts, each of which shall constitute an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

ZIOPHARM Oncology, Inc.

By: /s/ Richard E. Bagley

Name: Richard E. Bagley

Title: President, Chief Operating Officer and Chief Financial Officer

EXECUTIVE

By: /s/ Jonathan J. Lewis

Name: Jonathan J. Lewis, M.D., Ph.D.

SCHEDULE 5(b)

Calculation of Performance Bonus

Prior to the beginning of each Bonus Calculation Year during the Term, the Executive and the Compensation Committee of the Board shall agree upon five (5) performance goals (“Targets”) for the Bonus Calculation Year. The amount of Performance Bonus payable to the Executive pursuant to Section 5(b) of this Agreement for any Bonus Calculation Year shall be determined based on the Executive’s achievement of the Targets as follows:

With respect to each of the Targets, the Executive will receive \$60,000 in Performance Bonus if the Target is met on or before the end of the Bonus Calculation Year (*e.g.*, Performance Bonus of \$300,000 if all Targets are met).

The Executive will receive \$50,000 in Performance Bonus with respect to any Target that has not been met on or before the end of the Bonus Calculation Year, *provided* that *either* of the following has occurred: (1) (a) the Executive has devoted his reasonable best business efforts toward achievement the Target during the Bonus Calculation Year, and (b) substantial progress toward accomplishment of the Target has occurred during the Bonus Calculation Year; *or* (2) during the Bonus Calculation Year, the Company abandoned the business goal that the Target was intended to address (*e.g.*, Performance Bonus of \$250,000 if no Target is met, but the Executive has devoted his reasonable best business efforts to achievement of all of the Targets).

The Executive will receive \$72,000 in Performance Bonus with respect to any Target if the Target is exceeded during the Bonus Calculation Year and the Board determines that the Executive’s performance with respect to the Target exceeded expectations (*e.g.*, Performance Bonus of \$360,000 if the Executive’s performance with respect to all Targets exceeded expectations).

SCHEDULE 7(a)

1. Developing, designing, producing, marketing, selling or rendering oncology products in the class of arsenicals, products in the phosphoramidic nitrogen mustard family and “mustard gas family,” and anti-mitotics with the same mechanism as that in indibulin or products that are in the same chemical family as those that have been or are being developed, designed, produced, marketed, sold or rendered by the Corporation during the period of the Executive’s employment with the Company.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

As independent registered public accountants, we hereby consent to the incorporation by reference of our report dated February 7, 2008 relating to the financial statements of ZIOPHARM Oncology, Inc. for the year ended December 31, 2007, and to all references to our Firm, included in or made part of this Form 10-KSB, into the Company's previously filed Registration Statements on Forms S-8 (File Nos. 333-129884, 333-134280 and 333-142701) and Forms S-3 (File Nos. 333-129680, 333-134279 and 333-141014).

VITALE, CATURANO & COMPANY, LTD.

Boston, Massachusetts
February 21, 2008

CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER

I, Jonathan Lewis, certify that:

1. I have reviewed this annual report on Form 10-KSB of ZIOPHARM Oncology, 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 small business issuer'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)) for the small business issuer 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 small business issuer, 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) Evaluated the effectiveness of the small business issuer'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
 - c) Disclosed in this report any change in the small business issuer's internal control over financial reporting that occurred during the small business issuer's most recent fiscal quarter (the small business issuer's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the small business issuer's internal control over financial reporting; and
5. The small business issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the small business issuer's auditors and the audit committee of the small business issuer'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 small business issuer'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 small business issuer's internal control over financial reporting.

Date: February 21, 2008

/s/ Jonathan Lewis

Jonathan Lewis

Principal Executive Officer

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER

I, Richard Bagley, certify that:

1. I have reviewed this annual report on Form 10-KSB of ZIOPHARM Oncology, 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 small business issuer'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)) for the small business issuer 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 small business issuer, 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) Evaluated the effectiveness of the small business issuer'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
 - c) Disclosed in this report any change in the small business issuer's internal control over financial reporting that occurred during the small business issuer's most recent fiscal quarter (the small business issuer's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the small business issuer's internal control over financial reporting; and
5. The small business issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the small business issuer's auditors and the audit committee of the small business issuer'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 small business issuer'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 small business issuer's internal control over financial reporting.

Date: February 21, 2008

/s/ Richard E. Bagley

Richard E. Bagley
Principal 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 ZIOPHARM Oncology, Inc. (the "Company") on Form 10-KSB for the year ended December 31, 2005, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Jonathan Lewis, Principal Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 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 result of operations of the Company.

/s/ Jonathan Lewis

Jonathan Lewis

Principal Executive Officer

February 21, 2008

**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 ZIOPHARM Oncology, Inc. (the "Company") on Form 10-KSB for the year ended December 31, 2005, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Richard Bagley, Principal Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 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 result of operations of the Company.

/s/ Richard E. Bagley

Richard E. Bagley
Principal Financial Officer
February 21, 2008
