

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

**Form 10-K**

**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**  
For the fiscal year ended December 31, 2007

or

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**  
For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File No. 000-51863

**VANDA PHARMACEUTICALS INC.**

*(Exact name of registrant as specified in its charter)*

**Delaware**  
*(State or other jurisdiction of incorporation or organization)*

**03-0491827**  
*(I.R.S. Employer Identification No.)*

**9605 Medical Center Drive, Suite 300**  
**Rockville, Maryland 20850**  
**(240) 599-4500**

*(Address and telephone number, including area code, of registrant's principal executive offices)*

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

<u>Title of Each Class</u>	<u>Trading Symbol</u>
Common Stock, par value \$0.001	The Nasdaq Stock Market LLC (NASDAQ Global Market)

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

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

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

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

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

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

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

*(Do not check if a smaller reporting company)*

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

The aggregate market value of the 23,614,084 shares of Common Stock held by non-affiliates of the registrant (based on the closing price of the registrant's Common Stock on the last business day of the registrant's most recently completed second fiscal quarter) was \$478,421,342.

The number of shares of the registrant's Common Stock, par value \$0.001 per share, outstanding as of March 7, 2008 was 26,652,728.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's Proxy Statement for its 2008 Annual Meeting of Stockholders to be held on May 8, 2008, which Proxy Statement is to be filed within 120 days after the end of the registrant's fiscal year ended December 31, 2007, are incorporated by reference in Part III of this annual report on Form 10-K.

**Vanda Pharmaceuticals Inc.**  
**Form 10-K**

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### **CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS**

Various statements in this report are “forward-looking statements” under the securities laws. Words such as, but not limited to, “believe,” “expect,” “anticipate,” “estimate,” “intend,” “plan,” “targets,” “likely,” “will,” “would,” and “could,” and similar expressions or words, identify forward-looking statements. Forward-looking statements are based upon current expectations that involve risks, changes in circumstances, assumptions and uncertainties. Vanda Pharmaceuticals Inc. (Vanda or the Company) is at an early stage of development and may not ever have any products that generate significant revenue. Important factors that could cause actual results to differ materially from those reflected in our forward-looking statements include, among others:

- delays in the completion of our clinical trials;
- a failure of our product candidates to be demonstrably safe and effective;
- our failure to obtain regulatory approval for our products or to comply with ongoing regulatory requirements;
- a lack of acceptance of our product candidates in the marketplace, or a failure to become or remain profitable;
- our inability to obtain the capital necessary to fund our research and development activities;
- our failure to identify or obtain rights to new product candidates;
- our failure to develop or obtain sales, marketing and distribution resources and expertise or to otherwise manage our growth;
- a loss of any of our key scientists or management personnel;
- losses incurred from product liability claims made against us; and
- a loss of rights to develop and commercialize our products under our license and sublicense agreements.

All written and verbal forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. We caution investors not to rely too heavily on the forward-looking statements we make or that are made on our behalf. We undertake no obligation, and specifically decline any obligation, to update or revise publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

We encourage you to read the discussion and analysis of our financial condition and our consolidated financial statements contained in this annual report on Form 10-K. We also encourage you to read Item 1A of this annual report on Form 10-K, entitled “Risk Factors,” which contains a more complete discussion of the risks and uncertainties associated with our business. In addition to the risks described above and in Item 1A of this report, other unknown or unpredictable factors also could affect our results. There can be no assurance that the actual results or developments anticipated by us will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, us. Therefore, no assurance can be given that the outcomes stated in such forward-looking statements and estimates will be achieved.

## ITEM 1. BUSINESS

### Overview

We are a biopharmaceutical company focused on the development and commercialization of clinical-stage drug candidates for central nervous system disorders, with exclusive worldwide commercial rights to three product candidates in clinical development. We believe that each of our product candidates will address a large market with significant unmet medical needs by offering advantages over currently available therapies. Our product portfolio includes:

- Fiapta™ (iloperidone), a compound for the treatment of schizophrenia and bipolar disorder. On November 27, 2007 the United States Food and Drug Administration (FDA) accepted a New Drug Application (NDA) for Fiapta™ for the treatment of schizophrenia. Acceptance of the NDA confirms that the application is sufficiently complete for FDA review. We expect a decision on the application on the Prescription Drug User Fee Act (PDUFA) action date of or about July 27, 2008, although the FDA may not meet, or may extend, the PDUFA action date. Fiapta™ is also ready to begin Phase III trials for the treatment of bipolar disorder. We also plan to develop further an extended release injectable formulation for Fiapta™ to address the patient compliance issues typically associated with antipsychotic therapies.
- VEC-162, a compound for the treatment of sleep and mood disorders. VEC-162 has demonstrated positive top-line results from a Phase III trial in transient insomnia. In November 2007 we initiated, and in February 2008 we completed, enrollment in a Phase III trial of VEC-162 for the treatment of chronic primary insomnia. We expect to complete the trial and to report its top-line results in June 2008. We will have to conduct additional trials prior to our filing of an NDA for VEC-162. VEC-162 is also ready for Phase II trials for the treatment of depression.
- VSF-173, a compound for the treatment of excessive sleepiness. VSF-173 is in a Phase II program. On October 30, 2007 we reported the top-line results of our first Phase II clinical trial of VSF-173 for the treatment of excessive sleepiness. We will have to conduct additional Phase II trials for this product candidate in order to further its development.

We hold exclusive, worldwide rights to the above compounds and, assuming successful outcomes of our clinical trials and approval by the FDA, we expect to commercialize Fiapta™ and VSF-173 with our own sales force in the U.S., and to seek partners for commercialization of these compounds outside of the United States. Given the large size of the prescribing physician base for sleep and mood disorders, we plan to partner with a global pharmaceutical company for the development and commercialization of VEC-162 worldwide, although we have not yet identified such a partner.

Our founder and Chief Executive Officer, Mihael H. Polymeropoulos, M.D., started our operations early in 2003 after establishing and leading the Pharmacogenetics Department at Novartis AG (Novartis). In acquiring and developing our compounds we have relied upon our deep expertise in the scientific disciplines of pharmacogenetics and pharmacogenomics. These scientific disciplines examine both genetic variations among people that influence response to a particular drug, and the multiple pathways through which drugs affect people. We believe that the combination of our expertise in these disciplines and our drug development expertise may provide us with preferential access to compounds discovered by other pharmaceutical companies, and will allow us to identify new uses for these compounds. These capabilities should also enable us to shorten the time it takes to commercialize a drug when compared to traditional approaches.

Our three product candidates target large prescription markets with significant unmet medical needs. Sales of antipsychotic drugs were approximately \$15 billion in 2006, according to World Review Analyst by IMS, a leading pharmaceutical market research company. These sales were achieved despite the safety concerns, moderate efficacy and poor patient compliance that are associated with these drugs. We believe that Fiapta™ may address some of the shortcomings of currently available drugs, based on its observed safety profile and the extended release injectable formulation for Fiapta™ that we plan to develop further. According to IMS, in 2006, sales of insomnia drugs generated more than \$4 billion in worldwide sales and worldwide sales of anti-depressants exceeded \$19 billion. However, approved drugs in both the sleep and mood disorders markets have

sub-optimal safety and efficacy profiles. We believe VEC-162 may represent a breakthrough in each of these markets, based on the compound's demonstrated efficacy and safety to date and its novel mechanism of action. The treatment of excessive sleepiness is a rapidly growing market which generated worldwide sales of approximately \$800 million in 2006. Few drugs exist to treat this condition, and each of the available drugs has limitations. We believe that VSF-173 may represent a safe and effective alternative treatment in this growing market.

### **Our strategy**

Our goal is to create a leading biopharmaceutical company focused on developing and commercializing products that address critical unmet medical needs through the application of our drug development expertise and our pharmacogenetics and pharmacogenomics expertise. The key elements of our strategy to accomplish this goal are to:

- *Pursue the clinical development and regulatory approval of our current product candidates.* On November 27, 2007 the FDA officially accepted the NDA for Fiapta™ for the treatment of schizophrenia. We have also successfully completed a Phase III trial of VEC-162, although we will need to conduct additional Phase III trials of VEC-162 in chronic sleep disorders prior to filing an NDA for this compound. In November 2007 we initiated, and in February 2008 we completed, enrollment in a Phase III trial of VEC-162 in chronic primary insomnia. We have committed, and will continue to commit, substantial resources towards completing the development of, and obtaining regulatory approvals for, our product candidates.
- *Develop a focused commercialization capability in the United States.* Because we believe that the number of physicians accounting for the majority of prescriptions in the U.S. for schizophrenia and excessive sleepiness is relatively small, we believe that we can cost-effectively develop our own sales force to market and sell Fiapta™ and VSF-173.
- *Enter into partnerships to extend our commercial reach.* Given the large number of physicians treating sleep and mood disorders, we intend to enter into a global partnership with a large pharmaceutical company to market, distribute and sell VEC-162. Additionally, we intend to seek commercial partners for Fiapta™ and VSF-173 outside of the United States.
- *Apply our pharmacogenetics and pharmacogenomics expertise to differentiate our products.* We believe that our pharmacogenetics and pharmacogenomics expertise will yield new insights into our product candidates. These insights may enable us to target our products to certain patient populations and to identify unexpected conditions for our product candidates to treat. We believe this expertise will enable us to differentiate and extend the lifecycle of each of our product candidates. Our expertise may allow us to develop companion diagnostic tests to help physicians identify patient populations that will realize greater benefits from our compounds. Our NDA for Fiapta™ contains pharmacogenetic data aimed to further improve the benefit/risk profile of Fiapta™ in the treatment of patients with schizophrenia.
- *Expand our product portfolio through the identification and acquisition of additional compounds.* We intend to continue to draw upon our clinical development expertise and pharmacogenetics and pharmacogenomics expertise to identify and pursue additional clinical-stage compounds.

## Development programs

We have the following product candidates in clinical development:

Product Candidate		
Fiapta™ (Oral)	Schizophrenia Bipolar Disorder	NDA accepted by the FDA in November 2007 Ready for Phase III trial
Fiapta™ (Injectible)	Schizophrenia	Ready for Phase II trial
VEC-162	Insomnia Depression	Phase III trial for transient insomnia completed in 2006 Phase III trial for chronic insomnia initiated in November 2007 Ready for Phase II trial
VSF-173	Excessive Sleepiness	Initial Phase II trial completed in 2007

## Fiapta™

We are developing Fiapta™ (iloperidone), a compound for the treatment of schizophrenia and bipolar disorder. The FDA accepted our NDA for Fiapta™ for the treatment of schizophrenia on November 27, 2007 and we expect the decision on our NDA on the Prescription Drug User Fee Act (PDUFA) action date of or about July 27, 2008, although the FDA may not meet, or may extend, the PDUFA action date. The application includes data from 35 clinical trials and more than 3,000 patients treated with Fiapta™ and also contains pharmacogenetic data aimed to further improve the benefit/risk profile of Fiapta™ in the treatment of patients with schizophrenia.

### *Therapeutic opportunity*

Schizophrenia is a chronic, debilitating mental disorder characterized by hallucinations, delusions, racing thoughts and other psychotic symptoms (collectively referred to as “positive symptoms”), as well as moodiness, anhedonia (inability to feel pleasure), loss of interest, eating disturbances and withdrawal (collectively referred to as “negative symptoms”), and additionally attention and memory deficits (collectively referred to as “cognitive symptoms”). Schizophrenia develops in late adolescence or early adulthood in approximately 1% of the world’s population. Most schizophrenia patients today are treated with drugs known as “atypical” antipsychotics, which were first approved in the U.S. in the late 1980s. These antipsychotics have been named “atypical” for their ability to treat a broader range of negative symptoms than the first-generation “typical” antipsychotics, which were introduced in the 1950s and are now generic. Atypical antipsychotics are generally regarded as having improved side effect profiles and efficacy relative to typical antipsychotics and currently comprise 90% of schizophrenia prescriptions. The global market for atypical antipsychotics was in excess of \$15 billion in 2006, according to IMS. Currently approved atypical antipsychotics include olanzapine (Zyprexa®) by Eli Lilly and Company, risperidone (Risperdal®) and paliperidone (Invega®), each by Ortho-McNeil-Janssen Pharmaceuticals, Inc., quetiapine (Seroquel®) by AstraZeneca, aripiprazole (Abilify®) by Bristol-Myers Squibb (BMS), ziprasidone (Geodon®) by Pfizer, and generic clozapine.

### *Limitations of current treatments*

The treatment of schizophrenia remains challenging because currently approved antipsychotics, even atypical antipsychotics, often induce serious side effects and offer only modest and occasional efficacy. Side effects include weight gain, diabetes, extrapyramidal symptoms (involuntary bodily movements), hyperprolactinemia (an elevated secretion of the hormone prolactin which can lead to sexual dysfunction and breast development and milk secretion in women and men), increased somnolence (sleepiness) and cognition difficulties. The side-effect profile and modest efficacy of currently available antipsychotics result in poor patient compliance with prescribed drug regimens. Consequently, there remains a high degree of dissatisfaction with atypical antipsychotics among physicians and patients. Research by LEK Consulting LLC (LEK Consulting), a leading consulting firm, supports this, showing that physicians employ a “trial-and-error” approach of prescribing a series

of different atypical antipsychotics as they attempt to balance side effects and symptom management in each patient. In addition, the recent Clinical Antipsychotic Trials of Interventional Effectiveness (CATIE) study, conducted by the National Institute of Mental Health and reported in *The New England Journal of Medicine*, found that 74% of patients taking antipsychotics discontinued treatment within 18 months. The average time to discontinuation for these patients in the CATIE study was approximately 6 months.

***Potential advantages of Fiapta™***

Fiapta™ may offer several advantages over existing therapies.

- *Efficacy and safety.* In a complete program of Phase II and Phase III trials comprising more than 3,000 patients, Fiapta™ showed efficacy equivalent to other atypical antipsychotics, as well as a reduced risk of the side effects most associated with atypical antipsychotics, including low weight gain, no induction of diabetes, low extrapyramidal symptoms, including no akathisia (inability to sit still), no hyperprolactinemia, low incidence of sleepiness and low negative effects on cognition relative to placebo. Like other atypical antipsychotics, Fiapta™ is associated with a prolongation of the heart's QTc interval, but in no instance did any patient taking Fiapta™ in the controlled portion of a clinical trial have an interval exceeding a 500-millisecond threshold that the FDA has identified as being of particular concern. Two patients experienced a prolongation of 500 milliseconds or more during the open-label extension of one trial. We believe that the safety profile of Fiapta™ may result in improved patient compliance with their treatment regimen.
- *Extended-release injectable formulation.* We are developing an extended-release injectable formulation for Fiapta™, which is administered once every four weeks and which we believe will be a compelling complement to our oral formulation for both physicians and patients. Novartis conducted a two-month Phase I/IIa safety trial of this formulation in schizophrenia patients, in which it demonstrated the benefit of consistent release over a four-week time period with no greater side effects relative to oral dosing. We believe we will need to conduct additional trials with this formulation to be able to file for FDA approval. The commercial potential for our extended-release injectable formulation has been demonstrated by the success of the injectable formulation for risperidone, Risperdal® Consta®, which achieved worldwide sales of approximately \$900 million in 2006, according to IMS. We believe that our four-week formulation for Fiapta™ will be an attractive alternative to Risperdal® Consta®, which is required to be injected once every two weeks. Additionally, and unlike Risperdal® Consta®, we do not believe that the injectable formulation for Fiapta™ will require oral titration, which would result in simplified dosing.

Additionally, we plan to continue to apply our pharmacogenetics and pharmacogenomics expertise to develop tools that may allow physicians to avoid the “trial-and-error” approach to prescribing antipsychotic medications for their patients.

- *Pharmacogenetic evaluation of Fiapta™'s efficacy.* Based on the results of our most recent Phase III trial, as well as analyses of prior clinical data for Fiapta™, we have determined that certain patients may be more likely to respond to Fiapta™ and to enjoy better treatment results relative to the general schizophrenia patient population. These patients have a common mutation of a gene, linked to central nervous system function, that is estimated to occur in approximately 70% of schizophrenia patients. We developed a genetic test which we used in our recently completed Phase III trial and confirmed this correlation. According to market research conducted by LEK Consulting, physicians treating schizophrenia patients would enthusiastically welcome a genetic test that would enable them to identify likely responders to Fiapta™, given the unpredictable efficacy and serious side effects currently associated with atypical antipsychotics, and be more likely to prescribe Fiapta™ as a result.
- *Pharmacogenetic evaluation of Fiapta™'s safety.* Based on the results of our most recent Phase III trial, and other pharmacogenetic analysis, we have discovered that patients with an uncommon mutation of a well understood gene affecting drug metabolism experience higher levels of Fiapta™ in their blood and may experience longer QTc intervals while taking Fiapta™. We estimate that this genetic attribute is found in approximately 25-30% of schizophrenia patients, comprised of poor metabolizers

(approximately 5-10% of schizophrenia patients) and intermediate metabolizers (approximately 20% of schizophrenia patients). We believe that certain physicians may choose to test patients for this mutation if they have a concern about QTc interval prolongation with respect to a particular patient.

***Potential indication for bipolar disorder***

In addition to schizophrenia, we believe Fiapta™ may be effective in treating bipolar disorder. All of the approved atypical antipsychotics have received approval for bipolar disorder subsequent to commercializing for the treatment of schizophrenia. Approximately 20% of antipsychotic prescriptions are for the treatment of bipolar disorder, according to LEK Consulting. Fiapta™ is ready for an initial Phase III trial in bipolar disorder.

***Intellectual property***

Fiapta™ and its metabolites, formulations, genetic markers and uses are covered by a total of nineteen patent and patent application families worldwide. The primary new chemical entity patent covering Fiapta™ expires normally in 2011 in the United States and 2010 in most of the major markets in Europe. In the United States, the Hatch-Waxman Act of 1984 provides for an extension of new chemical entity patents for a period of up to five years following the expiration of the patent covering that compound to compensate for time spent in development. We believe that Fiapta™ will qualify for the full five-year patent term extension. In Europe, similar legislative enactments provide for five-year extensions of new chemical entity patents through the granting of Supplementary Protection Certificates, and we believe that Fiapta™ will qualify for this extension as well. Consequently, assuming that we are granted all available extensions by the FDA and European regulatory authorities and that we receive regulatory approval, we expect that our rights to commercialize Fiapta™ will be exclusive until 2016 in the United States and until 2015 in Europe. Additionally, the patent application covering the depot formulation for Fiapta™, if it is granted, will expire normally in 2022. Several other patent applications covering metabolites, uses, formulations and genetic markers relating to Fiapta™ extend beyond 2020. Pursuant to a European Union directive, we may also acquire market exclusivity (sometimes referred to as, “data exclusivity”) in most European Union countries for Fiapta™ for a period of 10 years from the date of its regulatory approval in Europe (with the possibility for a further one-year extension), even though the European patents covering Fiapta™ will likely expire prior to the end of such 10-year period. No generic versions of Fiapta™ would be permitted to be marketed or sold during this 10-year period in most European countries.

We acquired worldwide, exclusive rights to the new chemical entity patent covering Fiapta™ and certain related intellectual property from Novartis under a sublicense agreement we entered into in 2004. Please see “License agreements” below for a more complete description of the rights we acquired from Novartis with respect to Fiapta™.

**VEC-162**

VEC-162 is an oral compound in development for sleep and mood disorders. The compound binds selectively to the brain’s melatonin receptors, which are thought to govern the body’s natural sleep/wake cycle. Compounds that bind selectively to these receptors are thought to be able to help treat sleep disorders, and additionally are believed to offer potential benefits in mood disorders. We announced positive top-line results from our Phase III trial of VEC-162 in transient insomnia in November 2006. In February 2008 we completed an enrollment of our Phase III trial of VEC-162 in chronic insomnia and we expect to announce top-line results of this trial in June 2008. VEC-162 is also ready to commence a Phase II trial for the treatment of depression.

***Therapeutic opportunity***

Industry sources estimate that of the 73 million U.S. adults who suffer from some form of insomnia, only approximately 11 million currently receive treatment. Sleep disorders are segmented into three major categories: primary insomnia, secondary insomnia and circadian rhythm sleep disorders. Insomnia is a

symptom complex that comprises difficulty falling asleep or staying asleep, or non-refreshing sleep, in combination with daytime dysfunction or distress. The symptom complex can be an independent disorder (primary insomnia) or be a result of another condition such as depression or anxiety (secondary insomnia). Circadian rhythm sleep disorders result from a misalignment of the sleep/wake cycle and an individual's daily activities or lifestyle. The circadian rhythm is the rhythmic output of the human biological clock and is governed primarily by the hormone melatonin. Both the timing of behavioral events (activity, sleep, and social interactions) and the environmental light/dark cycle result in a sleep/wake cycle that follows the circadian rhythm. Examples of circadian rhythm sleep disorders include transient disorders such as jet lag and chronic disorders such as shift work sleep disorder. Market research we have conducted with LEK Consulting indicates that circadian rhythm sleep disorders represent a significant portion of the market for sleep disorders. In 2006, the sleep disorder drug market generated approximately \$4.5 billion in worldwide sales, according to IMS.

There are a number of drugs approved and prescribed for patients with sleep disorders. The most commonly prescribed drugs are hypnotics, such as zolpidem (Ambien<sup>®</sup>, sanofi-aventis), eszopiclone (Lunesta<sup>®</sup>, Sepracor, Inc.) and zaleplon (Sonata<sup>®</sup>, King Pharmaceuticals, Inc.). Hypnotics work by acting upon a set of brain receptors known as GABA receptors, which are separate and distinct from the melatonin receptors to which VEC-162 binds. Several drugs in development, including indiplon (Neurocrine Biosciences), also utilize a mechanism of action involving binding to GABA receptors. Members of the benzodiazapine class of sedatives are also approved for insomnia, but their usage has declined due to an inferior safety profile compared to hypnotics. Anecdotal evidence also suggests that sedative antidepressants, such as trazodone and doxepin, are prescribed off-label for insomnia. The FDA approved drugs for treatment of insomnia also include ramelteon (Rozerem<sup>™</sup>, Takeda Pharmaceuticals Company Limited), a compound with a mechanism of action similar to VEC-162.

### ***Limitations of current treatments***

We believe that each of the drugs used to treat insomnia has inherent limitations that leave patients underserved. The key limitations include the potential for abuse, significant side effects, and a failure to address the underlying causes of sleeplessness:

- Many of the products prescribed commonly for sleep disorders, including Ambien<sup>®</sup>, Lunesta<sup>®</sup>, and Sonata<sup>®</sup>, are classified as Schedule IV controlled substances by the United States Drug Enforcement Administration (DEA) due to their potential for abuse, tolerance and withdrawal symptoms. Drugs that are classified as Schedule IV controlled substances are subject to restrictions on how such drugs are prescribed and dispensed.
- Many drugs approved for and used in sleep disorders also induce a number of nuisance side effects beyond the more serious abuse and addiction effects associated with most approved products. These side effects include next-day grogginess, memory loss, unpleasant taste, dry mouth and hormonal changes.
- We believe that none of the drugs used and approved for sleep, other than Rozerem<sup>™</sup>, work through the body's natural sleep/wake cycle, which is governed by melatonin. We believe that, for patients whose sleep disruption is due to a misalignment of this sleep/wake cycle and these patients' need to sleep (as is the case in circadian rhythm sleep disorders), a drug that naturally modulates the sleep/wake cycle would be an attractive new alternative because it would address the underlying cause of the sleeplessness, rather than merely addressing its symptoms.

### ***Potential advantages of VEC-162***

We believe that VEC-162 may offer efficacy similar to the most efficacious of the approved sleep drugs, and that it may provide significant benefits to patients beyond those offered by the approved drugs. We believe that VEC-162 is unlikely to be scheduled as a controlled substance by the DEA because Rozerem<sup>™</sup>, which has a similar mechanism of action to VEC-162, was shown not to have potential for abuse and was not classified as a Schedule IV controlled substance by the DEA. However, despite the fact that the drugs have a similar mechanism of action, our Phase III results have demonstrated that VEC-162 may offer superior sleep

maintenance to Rozerem™. VEC-162 also appears to be safe and well-tolerated, with no significant side effects or effects on next-day performance. For patients with circadian rhythm disorders, VEC-162 may be able to align the patient's sleep/wake cycle with his or her lifestyle, something we believe no approved sleep therapy has demonstrated. For example, in our Phase II trial of VEC-162 in transient insomnia with 37 healthy participants, VEC-162 induced a statistically significant ( $p < 0.025$ ) shift in circadian rhythm of up to five hours on the first night.

### ***Overview of Phase III clinical trials***

In November 2006 we reported positive top-line results in a randomized, double-blind, multi-center, placebo-controlled Phase III trial that enrolled 412 adults in a sleep laboratory setting using a phase-advance, first-night assessment model of induced transient insomnia. The trial examined VEC-162 dosed 30 minutes before bedtime at 20, 50 and 100 milligrams versus placebo.

VEC-162 achieved significant results in multiple endpoints, demonstrating a benefit in both sleep onset, or time to fall asleep, and sleep maintenance, or ability to stay asleep. Based on these trial results, we believe that VEC-162 will compare favorably to efficacy achieved by currently approved insomnia drugs, not only for circadian rhythm sleep disorders but also for other types of insomnia. The Phase III trial also demonstrated that VEC-162 was safe and well-tolerated, with no significant side effects versus placebo and no impairment of next-day performance or mood.

In November 2007 we initiated, and in February 2008 we completed, the enrollment for a Phase III clinical trial to evaluate the safety and efficacy of VEC-162 for the treatment of chronic primary insomnia. The trial is a randomized, double-blind, placebo-controlled study with 324 patients. The trial examines VEC-162 at 20 and 50 milligrams versus placebo over a period of 35 days. The trial measures time to fall asleep and sleep maintenance, as well as next-day performance. We expect to report the top-line results of this trial in June 2008. We will need to conduct additional Phase III trials of VEC-162 for the treatment of chronic sleep disorders to receive FDA approval of VEC-162 for the treatment of insomnia.

### ***Potential indication for depression***

We believe that VEC-162 may also be effective in treating depression. Agomelatine, another drug that acts on the brain's melatonin receptors, has demonstrated efficacy and safety in the treatment of depression that compared favorably to an approved antidepressant, Paxil® (paroxetine, GSK), in a Phase III trial. While the precise mechanism for the effect of drugs like VEC-162, agomelatine and Rozerem™, which act on the brain's melatonin receptors, is currently unknown, it is possible that, by improving sleep, these drugs could improve mood, since depressed patients are likely to have sleep disorders. It is also possible that mood disorders such as depression have an association with circadian rhythm misalignments.

Of the approximately 29 million adults in the United States who suffer from some form of depression, over 11 million are currently treated with a prescription antidepressant medication. Sales of antidepressants exceeded \$19 billion globally in 2006, according to IMS.

We believe that VEC-162 will be differentiated from approved antidepressants in several ways. In the Phase III trial of agomelatine described above, agomelatine showed significantly improved mood in two weeks, versus four weeks for Paxil®. Consequently, VEC-162 may, with its similar properties to agomelatine, offer a more rapid onset of action than approved antidepressants. We believe that VEC-162 should also have an improved side effect profile when compared to approved products because we believe that it should not have the sexual side effects, weight gain, and sleep disruption associated with these products.

VEC-162 is ready for Phase II trials in depression. It has demonstrated an antidepressant effect in animal models and has completed several Phase I trials, including one with four weeks of exposure, showing none of the serious side effects associated with the approved antidepressants.

### ***Intellectual property***

VEC-162 and its formulations and uses are covered by a total of twelve patent and patent application families worldwide. The primary new chemical entity patent covering VEC-162 expires normally in 2017 in the United States and in most European markets. We believe that, like Fiapta™, VEC-162 will meet the various criteria of the Hatch-Waxman Act and will receive five additional years of patent protection in the United States, which would extend its patent protection in the United States until 2022. In Europe, similar legislative enactments provide for five-year extensions of European new chemical entity patents through the granting of Supplementary Protection Certificates, and we believe that VEC-162 will qualify for such an extension, which would extend European patent protection for VEC-162 until 2022. Several other patent applications covering uses of VEC-162 will, if granted, provide exclusive rights for these uses until 2026.

Our rights to the new chemical entity patent covering VEC-162 and related intellectual property have been acquired through a license with BMS. Please see “License agreements” below for a discussion of this license.

### **VSF-173**

VSF-173 is an oral compound that has demonstrated effects on animal sleep/wake patterns and gene expression suggestive of a stimulant effect. In a recently completed Phase II trial of VSF-173 in excessive sleepiness, the compound demonstrated improvement compared to placebo on the Maintenance of Wakefulness Test (MWT) and dose-dependent, statistically significant improvements versus placebo on a number of secondary endpoints taken in the recovery sleep period after dosing, including number of awakenings, and sleep efficiency and wake after sleep onset in the first third of the recovery sleep period. We will have to conduct additional Phase II trials of VSF-173 in order to further its development. Excessive sleepiness is a rapidly growing market which generated worldwide sales of approximately \$800 million in 2006 according to IMS and is currently treated primarily by Provigil® (Cephalon).

### **Pharmacogenetics and pharmacogenomics expertise**

Our expertise in pharmacogenetics and pharmacogenomics provides us with access to high quality, patent-protected clinical compounds that have been discovered and developed by other pharmaceutical firms. We can capitalize on the discovery and early development efforts of other firms by acquiring compounds with clinical safety and possibly efficacy data that we believe can benefit from our extensive pharmacogenetics and pharmacogenomics expertise.

Pharmacogenetics and pharmacogenomics start from the premise that a given drug will not just affect the target/receptor for which it was initially developed, but will in fact interact with many systems within the body. Proof of this comes from two different sources. We know, for instance, that most drugs have side effects. These typically result from a drug’s interaction not just with its intended receptor in its intended organ system, but also with either that receptor outside the intended organ system or with other receptors entirely. There are many examples of drugs that were developed initially for one indication but were then shown to be effective for another. One example of this is Viagra® (sildenafil, Pfizer), which was developed initially for hypertension (high blood pressure) but proved more effective for erectile dysfunction. Being compound-focused enables us to forego costly drug discovery work and start with compounds already known to be safe and to interact with at least one biological system.

Starting with safe compounds, ones that have completed at least Phase I safety trials, we use our pharmacogenetics and pharmacogenomics expertise to understand the disease or diseases for which the drug has the optimal biological (and clinical) effect. We have used this expertise to identify potential points of differentiation for Fiapta™ and VSF-173. Beyond these two compounds, we have already identified a number of unexpected signaling pathways attributable to known compounds using these techniques, and we have filed a number of patent applications based on these findings. For each compound, we may choose to confirm our findings in animal studies. Compounds clearing this hurdle will be ready for Phase II trials.

Compounds that we would most likely consider attractive candidates for applying our expertise would meet the following criteria:

- were initially developed by an established biopharmaceutical company
- have already completed Phase I trials
- are free of significant formulation issues
- have potential for strong patent protection through composition of matter patents, new doses or new formulations

### **License agreements**

Our rights to develop and commercialize our clinical-stage product candidates are subject to the terms and conditions of licenses granted to us by other pharmaceutical companies.

#### ***Fiapta<sup>™</sup>***

We acquired exclusive worldwide rights to patents for Fiapta<sup>™</sup> (iloperidone) through a sublicense agreement with Novartis. A predecessor company of sanofi-aventis, Hoechst Marion Roussel, Inc. (HMRI), discovered iloperidone and completed early clinical work on the compound. In 1996, following a review of its product portfolio, HMRI licensed its rights to the iloperidone patents to Titan Pharmaceuticals, Inc. (Titan) on an exclusive basis. In 1997, soon after it had acquired its rights, Titan sublicensed its rights to iloperidone on an exclusive basis to Novartis. In June 2004 we acquired exclusive worldwide rights to these patents to develop and commercialize iloperidone through a sublicense agreement with Novartis. In partial consideration for this sublicense, we paid Novartis an initial license fee of \$500,000 and are obligated to make future milestone payments to Novartis of less than \$100 million in the aggregate (the majority of which are tied to sales milestones), as well as royalty payments to Novartis at a rate which, as a percentage of net sales, is in the mid-twenties. In November 2007 we met a milestone under this license agreement relating to the acceptance of our filing of the NDA for Fiapta<sup>™</sup> for the treatment of schizophrenia and made a license payment of \$5 million to Novartis.

Our rights with respect to the patents to develop and commercialize Fiapta<sup>™</sup> may terminate, in whole or in part, if we fail to meet certain development or commercialization milestones relating to the time it takes for us to launch Fiapta<sup>™</sup> commercially following regulatory approval, and the time it takes for us to receive regulatory approval following our submission of an NDA or equivalent foreign filing. Additionally, our rights may terminate in whole or in part if we do not meet certain other obligations under our sublicense agreement to make royalty and milestone payments, if we fail to comply with requirements in our sublicense agreement regarding our financial condition, or if we do not abide by certain restrictions in our sublicense agreement regarding other development activities.

#### ***VEC-162***

In February 2004 we entered into a license agreement with BMS under which we received an exclusive worldwide license under certain patents and patent applications, and other licenses to intellectual property, to develop and commercialize VEC-162. In partial consideration for the license, we paid BMS an initial license fee of \$500,000. We are also obligated to make future milestone payments to BMS of less than \$40 million in the aggregate (the majority of which are tied to sales milestones) as well as royalty payments based on the net sales of VEC-162 at a rate which, as a percentage of net sales, is in the low teens. We made a milestone payment to BMS of \$1,000,000 under this license agreement in 2006 relating to the initiation of our first Phase III clinical trial for VEC-162. We are also obligated under this agreement to pay BMS a percentage of any sublicense fees, upfront payments and milestone and other payments (excluding royalties) that we receive from a third party in connection with any sublicensing arrangement, at a rate which is in the mid-twenties. We have agreed with BMS in our license agreement for VEC-162 to use our commercially reasonable efforts to develop and commercialize VEC-162 and to meet certain milestones in initiating and completing certain clinical work.

BMS holds certain rights with respect to VEC-162 in the license agreement. If we have not agreed to one or more partnering arrangements to develop and commercialize VEC-162 in certain significant markets with one or more third parties after the completion of the Phase III program, BMS has the option to exclusively develop and commercialize VEC-162 on its own on pre-determined financial terms, including milestone and royalty payments. If we seek a co-promotion agreement for VEC-162, BMS has a right of first negotiation to enter into such an agreement with us.

Either party may terminate the VEC-162 license agreement under certain circumstances, including a material breach of the agreement by the other. In the event that BMS has not exercised its option to reacquire the rights to VEC-162 and we terminate our license, or if BMS terminates our license due to our breach, all rights licensed and developed by us under this agreement will revert or otherwise be licensed back to BMS on an exclusive basis.

### ***VSF-173***

In June 2004 we entered into a license agreement with Novartis under which we received an exclusive worldwide license to develop and commercialize VSF-173. In consideration for the license, we paid Novartis an initial license fee of \$500,000. We are also obligated to make future milestone payments to Novartis of less than \$50 million in the aggregate (the majority of which are tied to sales milestones) and royalty payments at rates which, as a percentage of net sales, range from the low-to-mid teens. In March 2007 we met our first milestone under this license agreement relating to the initiation of the Phase II clinical trial for VSF-173, and recorded a license fee expense of \$1,000,000.

Novartis has the right to co-develop and exclusively commercialize VSF-173 on its own after the completion of Phase II and Phase III programs in exchange for certain milestones and royalty payments. In the event that Novartis chooses not to exercise either of these options and we decide to enter into a partnering arrangement to commercialize VSF-173, Novartis has a right of first refusal to negotiate such an agreement with us, as well as a right to submit a last matching counteroffer regarding such an agreement. In addition, the rights with respect to VSF-173 may terminate, in whole or in part, if we fail to meet certain development and commercialization milestones described in the license agreement relating to the time it takes us to complete the development work on VSF-173. These rights may also terminate in whole or in part if we fail to make royalty or milestone payments or if we do not comply with requirements in the license agreement regarding our financial condition. In the event of an early termination of the license agreement, all rights licensed and developed by us under this agreement may revert back to Novartis.

### **Government regulation**

Government authorities in the United States, at the federal, state and local level, as well as foreign countries and local foreign governments, regulate the research, development, testing, manufacture, labeling, promotion, advertising, distribution, sampling, marketing, import and export of our product candidates. All of our products will require regulatory approval by government agencies prior to commercialization. In particular, human pharmaceutical products are subject to rigorous pre-clinical and clinical trials and other approval procedures of the FDA and similar regulatory authorities in foreign countries. The process of obtaining these approvals and the subsequent compliance with appropriate domestic and foreign laws, rules and regulations require the expenditure of significant time and human and financial resources.

#### ***United States government regulation***

In the United States, the FDA regulates drugs under the Federal Food, Drug and Cosmetic Act and implements regulations. If we fail to comply with the applicable requirements at any time during the product development process, approval process, or after approval, we may become subject to administrative or judicial sanctions. These sanctions could include the FDA's refusal to approve pending applications, withdrawals of approvals, clinical holds, warning letters, product recalls, product seizures, total or partial suspension of our operations, injunctions, fines, civil penalties or criminal prosecution. Any such sanction could have a material adverse effect on our business.

The steps required before a drug may be marketed in the United States include:

- pre-clinical laboratory tests, animal studies and formulation studies under Current Good Laboratory Practices (cGLP)
- submission to the FDA of an investigational new drug application, or IND, which must become effective before human clinical trials may begin
- execution of adequate and well-controlled clinical trials to establish the safety and efficacy of the product for each indication for which approval is sought
- submission to the FDA of an NDA
- satisfactory completion of an FDA inspection of the manufacturing facility or facilities at which the product is produced to assess compliance with Current Good Manufacturing Practices (cGMP)
- FDA review and approval of the NDA

Pre-clinical studies generally are conducted in laboratory animals to evaluate the potential safety and activity of a product. Violation of the FDA's cGLP regulations can, in some cases, lead to invalidation of the studies, requiring these studies to be replicated. In the United States, drug developers submit the results of pre-clinical trials, together with manufacturing information and analytical and stability data, to the FDA as part of the IND, which must become effective before clinical trials can begin in the United States. An IND becomes effective 30 days after receipt by the FDA unless before that time the FDA raises concerns or questions about issues such as the proposed clinical trials outlined in the IND. In that case, the IND sponsor and the FDA must resolve any outstanding FDA concerns or questions before clinical trials can proceed. If these concerns or questions are unresolved, the FDA may not allow the clinical trials to commence.

Pilot studies generally are conducted in a limited patient population, approximately three to 25 subjects, to determine whether the product candidate warrants further clinical trials based on preliminary indications of efficacy. These pilot studies may be performed in the United States after an IND has become effective or outside of the United States prior to the filing of an IND in the United States in accordance with government regulations and institutional procedures.

Clinical trials involve the administration of the investigational product candidate to human subjects under the supervision of qualified investigators. Clinical trials are conducted under protocols detailing, among other things, the objectives of the study, the parameters to be used in assessing the safety and the effectiveness of the drug. Each protocol must be submitted to the FDA as part of the IND prior to beginning the trial.

Typically, clinical evaluation involves a time-consuming and costly three-Phase sequential process, but the phases may overlap. Each trial must be reviewed, approved and conducted under the auspices of an independent Institutional Review Board, and each trial must include the patient's informed consent.

- Phase I: refers typically to closely-monitored clinical trials and includes the initial introduction of an investigational new drug into human patients or health volunteer subjects. Phase I trials are designed to determine the safety, metabolism and pharmacologic actions of a drug in humans, the potential side effects associated with increasing drug doses and, if possible, to gain early evidence of the product candidate's effectiveness. Phase I trials also include the study of structure-activity relationships and mechanism of action in humans, as well as studies in which investigational drugs are used as research tools to explore biological phenomena or disease processes. During Phase I trials, sufficient information about a drug's pharmacokinetics and pharmacological effects should be obtained to permit the design of well-controlled, scientifically valid Phase II studies. The total number of subjects and patients included in Phase I trials varies, but is generally in the range of 20 to 80 people.
- Phase II: refers to controlled clinical trials conducted to evaluate appropriate dosage and the effectiveness of a drug for a particular indication or indications in patients with a disease or condition under study and to determine the common short-term side effects and risks associated with the drug. These trials are typically well-controlled, closely monitored and conducted in a relatively small number of patients, usually involving no more than several hundred subjects.

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- Phase III: refers to expanded controlled and uncontrolled clinical trials. These trials are performed after preliminary evidence suggesting effectiveness of a drug has been obtained. Phase III trials are intended to gather additional information about the effectiveness and safety that is needed to evaluate the overall benefit-risk relationship of the drug and to provide an adequate basis for physician labeling. Phase III trials usually include several hundred to several thousand subjects.

Phase I, II and III testing may not be completed successfully within any specified time period, if at all. The FDA closely monitors the progress of each of the three phases of clinical trials that are conducted in the United States and may, at its discretion, reevaluate, alter, suspend or terminate the testing based upon the data accumulated to that point and the FDA's assessment of the risk/benefit ratio to the patient. A clinical program is designed after assessing the causes of the disease, the mechanism of action of the active pharmaceutical ingredient of the product candidate and all clinical and pre-clinical data of previous trials performed. Typically, the trial design protocols and efficacy endpoints are established in consultation with the FDA. Upon request through a special protocol assessment, the FDA can also provide specific guidance on the acceptability of protocol design for clinical trials. The FDA or we may suspend or terminate clinical trials at any time for various reasons, including a finding that the subjects or patients are being exposed to an unacceptable health risk. The FDA can also request additional clinical trials be conducted as a condition to product approval. During all clinical trials, physicians monitor the patients to determine effectiveness and to observe and report any reactions or other safety risks that may result from use of the drug candidate.

Assuming successful completion of the required clinical trials, drug developers submit the results of pre-clinical studies and clinical trials, together with other detailed information including information on the manufacture and composition of the product, to the FDA, in the form of an NDA, requesting approval to market the product for one or more indications. In most cases, the NDA must be accompanied by a substantial user fee. The FDA reviews an NDA to determine, among other things, whether a product is safe and effective for its intended use.

Before approving an NDA, the FDA will inspect the facility or facilities where the product is manufactured. The FDA will not approve the application unless cGMP compliance is satisfactory. The FDA will issue an approval letter if it determines that the application, manufacturing process and manufacturing facilities are acceptable. If the FDA determines that the NDA, manufacturing process or manufacturing facilities are not acceptable, it will outline the deficiencies in the submission and will often request additional testing or information. Notwithstanding the submission of any requested additional information, the FDA may ultimately decide that the NDA does not satisfy the regulatory criteria for approval and refuse to approve the NDA by issuing a "not approvable" letter.

The testing and approval process requires substantial time, effort and financial resources, and each may take several years to complete. The FDA may not grant approval on a timely basis, or at all. We may encounter difficulties or unanticipated costs in our efforts to secure necessary governmental approvals, which could delay or preclude us from marketing our products. Furthermore, the FDA may prevent a drug developer from marketing a product under a label for its desired indications or place other conditions on distribution as a condition of any approvals, which may impair commercialization of the product. After approval, some types of changes to the approved product, such as adding new indications, manufacturing changes and additional labeling claims, are subject to further FDA review and approval. Similar regulatory procedures must also be complied with in countries outside the United States.

If the FDA approves the new drug application, the drug becomes available for physicians to prescribe in the United States. After approval, we will have to comply with a number of post-approval requirements, including delivering periodic reports to the FDA, submitting descriptions of any adverse reactions reported, and complying with drug sampling and distribution requirements. We will also be required to provide updated safety and efficacy information and to comply with requirements concerning advertising and promotional labeling. Also, our quality control and manufacturing procedures must continue to conform to cGMP after approval. Drug manufacturers and their subcontractors are required to register their facilities and are subject to periodic unannounced inspections by the FDA to assess compliance with cGMP which imposes certain procedural and documentation requirements relating to quality assurance and quality control. Accordingly,

manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain compliance with cGMP and other aspects of regulatory compliance. The FDA may require post market testing and surveillance to monitor the product's safety or efficacy, including additional studies, known as Phase IV trials, to evaluate long-term effects.

In addition to studies requested by the FDA after approval, we may have to conduct other trials and studies to explore use of the approved compound for treatment of new indications, which require FDA approval. The purpose of these trials and studies is to broaden the application and use of the drug and its acceptance in the medical community.

We use, and will continue to use, third-party manufacturers to produce our products in clinical and commercial quantities. Future FDA inspections may identify compliance issues at our facilities or 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 or the failure to comply with requirements may result in restrictions on a product, manufacturer or holder of an approved NDA, including withdrawal or recall of the product from the market or other voluntary or FDA-initiated action that could delay further marketing. Newly discovered or developed safety or effectiveness data may require changes to a product's approved labeling, including the addition of new warnings and contraindications. Also, new government requirements may be established that could delay or prevent regulatory approval of our products under development.

### ***Foreign regulation***

Whether or not we obtain FDA approval for a product, we must obtain approval of a product by the comparable regulatory authorities of foreign countries before we can commence clinical trials or marketing of the product in those countries. The approval process varies from country to country, and the time may be longer or shorter than that required for FDA approval. The requirements governing the conduct of clinical trials, product licensing, pricing and reimbursement also vary greatly from country to country. Although governed by the applicable country, clinical trials conducted outside of the United States typically are administered with the three-Phase sequential process that is discussed above under "United States government regulation." However, the foreign equivalent of an IND is not a prerequisite to performing pilot studies or Phase I clinical trials.

Under European Union regulatory systems, we may submit marketing authorization applications either under a centralized or decentralized procedure. The centralized procedure, which is available for products produced by biotechnology or which are highly innovative, provides for the grant of a single marketing authorization that is valid for all European Union member states. This authorization is a marketing authorization approval. The decentralized procedure provides for mutual recognition of national approval decisions. Under this procedure, the holder of a national marketing authorization may submit an application to the remaining member states. Within 90 days of receiving the applications and assessment report, each member state must decide whether to recognize approval. This procedure is referred to as the mutual recognition procedure.

In addition, regulatory approval of prices is required in most countries other than the United States. We face the risk that the resulting prices would be insufficient to generate an acceptable return to us or our collaborators.

### **Third-party reimbursement and pricing controls**

In the United States and elsewhere, sales of pharmaceutical products depend in significant part on the availability of reimbursement to the consumer from third-party payors, such as government and private insurance plans. Third-party payors are increasingly challenging the prices charged for medical products and services. It will be time consuming and expensive for us to go through the process of seeking reimbursement from Medicare and private payors. Our products may not be considered cost-effective, and coverage and reimbursement may not be available or sufficient to allow us to sell our products on a competitive and profitable basis. The passage of the Medicare Prescription Drug and Modernization Act of 2003 imposes new requirements for the distribution and pricing of prescription drugs which may affect the marketing of our products.

In many foreign markets, including the countries in the European Union and Japan, pricing of pharmaceutical products is subject to governmental control. In the United States, there have been, and we expect that there will continue to be, a number of federal and state proposals to implement similar governmental pricing control. While we cannot predict whether such legislative or regulatory proposals will be adopted, the adoption of such proposals could have a material adverse effect on our business, financial condition and profitability.

### **Marketing and sales**

We expect to increase our pre-launch commercial activities relating to Fiapta™, and we expect to start marketing Fiapta™ commercially in early 2009. However, the time it takes to receive cash inflows from the sale of Fiapta™ is highly dependent on facts and circumstances that we may not be able to control and are subject to a number of risks. We currently have limited sales, marketing or distribution capabilities. However, we plan to continue developing these capabilities internally to the extent that it is practical to do so, and enter into partnering arrangements to the extent that we believe large sales and marketing forces will be necessary. More specifically, in the United States, we expect to build our own sales force to market Fiapta™ and VSF-173 directly to psychiatrists and other target physicians. Because we believe that the number of physicians that would generate the majority of prescriptions for Fiapta™ and VSF-173 is relatively small, we believe that we can cost-effectively develop our own sales force to market and sell Fiapta™ and VSF-173. Outside of the U.S., we intend to find commercial partners for Fiapta™ and VSF-173. We will seek a global commercial partner for VEC-162.

### **Patents and proprietary rights; Hatch-Waxman protection**

We will be able to protect our products from unauthorized use by third parties only to the extent that our products are covered by valid and enforceable patents, either licensed in from third parties or generated internally, that give us sufficient proprietary rights. Accordingly, patents and other proprietary rights are essential elements of our business.

Our three current compounds in clinical development are covered by new chemical entity and other patents. These patents cover the active portions of our compounds and provide patent protection for all formulations containing these active portions. The new chemical entity patent for iloperidone is owned by sanofi-aventis, and other patents and patent applications relating to iloperidone are owned by Novartis. Novartis also owns the new chemical entity patent for VSF-173 and BMS owns the new chemical entity patent for VEC-162. For all three compounds we have obtained exclusive worldwide rights to develop and commercialize the compounds covered by these patents through license and sublicense arrangements. For more on these license and sublicense arrangements, please see “License agreements” above. In addition, we have generated intellectual property, and filed patent applications covering this intellectual property, for each of the three compounds.

The new chemical entity patent covering iloperidone expires normally in 2011 in the United States and in 2010 in most European markets. The new chemical entity patent covering VEC-162 expires in 2017 in the United States and most European markets. The new chemical entity patent covering VSF-173 expires in 2014 in the United States and in 2012 in most European markets. Additionally, for each of our late-stage compounds, an additional period of exclusivity in the United States of up to five years following the expiration of the patent covering that compound may be obtained pursuant to the United States Drug Price Competition and Patent Term Restoration Act of 1984, more commonly known as the “Hatch-Waxman Act.” Assuming we gain such a five-year extension and that we continue to have our intellectual property rights under our sublicense and license agreements, we would have exclusive new chemical entity patent rights in the U.S. for iloperidone until 2016, for VEC-162 until 2022 and for VSF-173 until 2019. In Europe, similar legislative enactments may allow us to obtain five-year extensions of the European new chemical entity patents covering our product candidates through the granting of Supplementary Protection Certificates, which would allow us to have exclusive European new chemical entity patent rights for iloperidone until 2015, for VEC-162 until 2022 and for VSF-173 until 2017. Additionally, a directive in the European Union allows companies who receive European regulatory approval for a new compound to have a 10-year period of market exclusivity in most

European countries for that compound (with the possibility of a further one-year extension), beginning on the date of such European regulatory approval, regardless of when the European new chemical entity patent covering such compound expires. No generic version of an approved drug may be marketed or sold in most European countries during this 10-year period. This directive may be of particular importance with respect to iloperidone, since the European new chemical entity patent for iloperidone will likely expire prior to the end of this 10-year period of market exclusivity.

Aside from the new chemical entity patents covering our current late-stage compounds, as of December 31, 2007 we had twenty one pending provisional patent applications in the United States, two U.S. national stage applications under U.S.C. 371 and eight pending Patent Cooperation Treaty applications. The claims in these various patents and patent applications are directed to compositions of matter, including claims covering other product candidates, pharmaceutical compositions, genetic markers, and methods of use.

For proprietary know-how that is not appropriate for patent protection, processes for which patents are difficult to enforce and any other elements of our discovery process that involve proprietary know-how and technology that is not covered by patent applications, we rely on trade secret protection and confidentiality agreements to protect our interests. We require all of our employees, consultants and advisors to enter into confidentiality agreements. Where it is necessary to share our proprietary information or data with outside parties, our policy is to make available only that information and data required to accomplish the desired purpose and only pursuant to a duty of confidentiality on the part of those parties.

### **Manufacturing**

We currently depend and expect to continue to depend on a small number of third-party manufacturers to produce sufficient quantities of our product candidates for use in our clinical studies and in preparation of the commercial launch of Fiapta<sup>™</sup>. We are not obligated to obtain our product candidates from any particular third-party manufacturer and we believe that we would be able to obtain our product candidates from a number of third-party manufacturers at comparable cost.

If any of our product candidates are approved for commercial use, we plan to rely on third-party contract manufacturers to produce sufficient quantities for large-scale commercialization. If we do enter into commercial manufacturing arrangements with third parties, these third-party manufacturers will be subject to extensive governmental regulation. Specifically, regulatory authorities in the markets which we intend to serve will require that drugs be manufactured, packaged and labeled in conformity with cGMP or equivalent foreign standards. We intend to engage only those contract manufacturers who have the capability to manufacture drug products in compliance with cGMP and other applicable standards in bulk quantities for commercial use.

### **Competition**

The pharmaceutical industry and the central nervous system segment of that industry, in particular, is highly competitive and includes a number of established large and mid-sized companies with greater financial, technical and personnel resources than we have and significantly greater commercial infrastructures than we have. Our market segment also includes several smaller emerging companies whose activities are directly focused on our target markets and areas of expertise. If approved, our product candidates will compete with numerous therapeutic treatments offered by these competitors. While we believe that our product candidates will have certain favorable features, existing and new treatments may also possess advantages. Additionally, the development of other drug technologies and methods of disease prevention are occurring at a rapid pace. These developments may render our product candidates or technologies obsolete or noncompetitive.

We believe the primary competitors for each of our product candidates are as follows:

- For Fiapta™ in the treatment of schizophrenia, the atypical antipsychotics Risperdal® (risperidone), including the depot formulation Risperdal® Consta®, and Invega® (paliperidone), each by Ortho-McNeil-Janssen Pharmaceuticals, Inc., Zyprexa® (olanzapine) by Eli Lilly and Company, Seroquel® (quetiapine) by AstraZeneca PLC, Abilify® (aripiprazole) by BMS/Otsuka Pharmaceutical Co., Ltd., Geodon® (ziprasidone) by Pfizer Inc., and generic clozapine, as well as the typical antipsychotics haloperidol, chlorpromazine, thioridazine, and sulpiride (all of which are generic). In addition to the approved products, compounds in Phase III trials (or for which an NDA has been recently filed) for the treatment of schizophrenia include bifeprunox (Solvay S.A./Lundbeck A/S), and asenapine (Schering-Plough Corporation) and pimavanserin (Acadia Pharmaceuticals).
- For VEC-162 in the treatment of insomnia, Rozerem™ (ramelteon) by Takeda Pharmaceuticals Company Limited, hypnotics such as Ambien® (zolpidem) by sanofi-aventis (including Ambien CR®), Lunesta® (eszopiclone) by Sepracor Inc. and Sonata® (zaleplon) by King Pharmaceuticals, Inc., generic compounds such as trazodone and doxepin, and over-the-counter remedies such as Benadryl® and Tylenol PM®. In addition to the approved products, compounds in Phase III trials for insomnia (or for which an NDA has been recently filed) include indiplon (Neurocrine Biosciences, Inc.) and low-dose doxepin (Silenor™) by Somaxon Pharmaceuticals, Inc.
- For VEC-162 in the treatment of depression, antidepressants such as Paxil® (paroxetine) by GlaxoSmithKline (GSK), Zoloft® (sertraline) by Pfizer, Prozac® (fluoxetine) by Eli Lilly, Lexapro (escitalopram) by Lundbeck A/S /Forest Pharmaceuticals Inc., and Effexor® (venlafaxine) by Wyeth as well as other compounds such as Wellbutrin® (bupropion) by GSK and Cymbalta® (duloxetine) by Eli Lilly. In addition to the approved products, compounds in Phase III trials for depression include agomelatine (Novartis and Les Laboratoires Servier).
- For VSF-173 in the treatment of excessive sleepiness, Provigil® (modafinil) and Nuvigil® (armodafinil) by Cephalon Inc., and Xyrem® (sodium oxybate) by Jazz Pharmaceuticals, Inc.

Our ability to compete successfully will depend in part on our ability to utilize our pharmacogenetics and pharmacogenomics and drug development expertise to identify, develop, secure rights to and obtain regulatory approvals for promising pharmaceutical compounds before others are able to develop competitive products. Our ability to compete successfully will also depend on our ability to attract and retain skilled and experienced personnel. Additionally, our ability to compete may be affected because insurers and other third-party payors in some cases seek to encourage the use of cheaper, generic products, which could make our products less attractive.

### **Employees**

As of December 31, 2007 we had 50 full-time employees, 29 of whom were primarily engaged in research and development activities. None of our employees are represented by a labor union. We have not experienced any work stoppages and consider our employee relations to be good.

### **Corporate information**

We were incorporated in Delaware in 2002. Our principal executive offices are located at 9605 Medical Center Drive, Suite 300, Rockville, Maryland, 20850 and our telephone number is (240) 599-4500. Our website address is [www.vandapharma.com](http://www.vandapharma.com).

### **Available Information**

Vanda Pharmaceuticals Inc. files annual, quarterly, and current reports, proxy statements, and other documents with the Securities and Exchange Commission (SEC) under the Securities Exchange Act of 1934 (the Exchange Act). The public may read and copy any materials that we file with the SEC at the SEC's Public Reference Room at 100 F Street, NE, Washington, DC 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Also, the SEC maintains an Internet website that contains reports, proxy and information statements, and other information regarding

issuers, including us, that file electronically with the SEC. The public can obtain any documents that we file with the SEC at [www.sec.gov](http://www.sec.gov).

We also make available free of charge on our Internet website at [www.vandapharma.com](http://www.vandapharma.com) our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and, if applicable, amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC.

Our code of ethics, other corporate policies and procedures, and the charters of our Audit Committee, Compensation Committee and Nominating/Corporate Governance Committee are available through our Internet website at [www.vandapharma.com](http://www.vandapharma.com).

## ITEM 1A. RISK FACTORS

*Investing in our common stock involves a high degree of risk. You should consider carefully the risks and uncertainties described below, together with all of the other information in this report, including the consolidated financial statements and the related notes appearing at the end of this annual report on Form 10-K, with respect to any investment in shares of our common stock. If any of the following risks actually occurs, our business, financial condition, results of operations and future prospects would likely be materially and adversely affected. In that event, the market price of our common stock could decline and you could lose all or part of your investment.*

### Risks related to our business and industry

***Our success is dependent on the success of our three product candidates in clinical development: Fiaptam<sup>™</sup> (iloperidone), VEC-162 and VSF-173. If any of these product candidates are determined to be unsafe or ineffective in humans, whether in clinical trials or commercially, our business will be materially harmed.***

Despite the positive results of our completed trials, we are uncertain whether any of our current product candidates in clinical development will ultimately prove to be effective and safe in humans. Frequently, product candidates that have shown promising results in clinical trials have suffered significant setbacks in later clinical trials or even after they are approved for commercial sale. Future uses of any of our product candidates, whether in clinical trials or commercially, may reveal that the product candidate is ineffective, unacceptably toxic, has other undesirable side effects or is otherwise not fit for further use. If we are unable to discover and develop products that are safe and effective, our business will be materially harmed.

***Any failure or delay in completing clinical trials for our product candidates could severely harm our business.***

Pre-clinical studies and clinical trials required to demonstrate the safety and efficacy of our product candidates are time-consuming and expensive and together take several years to complete. The completion of clinical trials for our product candidates may be delayed by many factors, including:

- our inability to manufacture or obtain from third parties materials sufficient for use in pre-clinical studies and clinical trials
- delays in patient enrollment and variability in the number and types of patients available for clinical trials
- difficulty in maintaining contact with patients after treatment, resulting in incomplete data
- poor effectiveness of product candidates during clinical trials
- unforeseen safety issues or side effects
- governmental or regulatory delays and changes in regulatory requirements and guidelines

If we fail to complete successfully one or more clinical trials for any of our product candidates, we may not receive the regulatory approvals needed to market that product candidate. Therefore, any failure or delay in commencing or completing these clinical trials would harm our business materially.

***We face heavy government regulation, and FDA regulatory approval of our products is uncertain.***

The research, testing, manufacturing and marketing of drug products such as those that we are developing are subject to extensive regulation by federal, state and local government authorities, including the FDA. To obtain regulatory approval of a product, we must demonstrate to the satisfaction of the applicable regulatory agency that, among other things, the product is safe and effective for its intended use. In addition, we must show that the manufacturing facilities used to produce the products are in compliance with current Good Manufacturing Practices regulations, or cGMP.

The process of obtaining FDA and other required regulatory approvals and clearances will require us to expend substantial time and capital. Despite the time and expense expended, regulatory approval is never guaranteed. The number of pre-clinical and clinical tests that will be required for FDA approval varies depending on the drug candidate, the disease or condition that the drug candidate is in development for, and the regulations applicable to that particular drug candidate. The FDA can delay, limit or deny approval of a drug candidate for many reasons, including that:

- a drug candidate may not be safe or effective
- the FDA may interpret data from pre-clinical and clinical testing in different ways than we do
- the FDA may not approve our manufacturing process
- the FDA may change their approval policies or adopt new regulations
- the FDA may not meet, or may extend, the PDUFA action date with respect to a particular NDA

For example, if certain of our methods for analyzing our trial data are not approved by the FDA, we may fail to obtain regulatory approval for our product candidates.

Moreover, if and when our products do obtain such approval or clearances, the marketing, distribution and manufacture of such products would remain subject to extensive ongoing regulatory requirements. Failure to comply with applicable regulatory requirements could result in:

- warning letters
- fines
- civil penalties
- injunctions
- recall or seizure of products
- total or partial suspension of production
- refusal of the government to grant approvals
- withdrawal of approvals
- criminal prosecution

Any delay or failure by us to obtain regulatory approvals for our product candidates could diminish competitive advantages that we may attain and would adversely affect the marketing of our products. We have not received regulatory approval to market any of our product candidates in any jurisdiction.

Even if we do receive regulatory approval for our drug candidates, the FDA may impose limitations on the indicated uses for which our products may be marketed, subsequently withdraw approval or take other actions against us or our products that are adverse to our business. The FDA generally approves products for particular indications. An approval for a more limited indication reduces the size of the potential market for the product. Product approvals, once granted, may be withdrawn if problems occur after initial marketing.

We also are subject to numerous federal, state and local laws, regulations and recommendations relating to safe working conditions, laboratory and manufacturing practices, the environment and the use and disposal

of hazardous substances used in connection with our discovery, research and development work. In addition, we cannot predict the extent of government regulations or the impact of new governmental regulations that might significantly harm the discovery, development, production and marketing of our products. We may be required to incur significant costs to comply with current or future laws or regulations, and we may be adversely affected by the cost of such compliance.

***We intend to seek regulatory approvals for our products in foreign jurisdictions, but we may not obtain any such approvals.***

We intend to market our products outside the United States with one or more commercial partners. In order to market our products in foreign jurisdictions, we may be required to obtain separate regulatory approvals and to comply with numerous and varying regulatory requirements. The approval procedure varies among countries and jurisdictions and can involve additional testing, and the time required to obtain approval may differ from that required to obtain FDA approval. We have no experience with obtaining any such foreign approvals. Additionally, the foreign regulatory approval process may include all of the risks associated with obtaining FDA approval. For all of these reasons, we may not obtain foreign regulatory approvals on a timely basis, if at all. Approval by the FDA does not ensure approval by regulatory authorities in other countries or jurisdictions, and approval by one foreign regulatory authority does not ensure approval by regulatory authorities in other foreign countries or jurisdictions or by the FDA. We may not be able to file for regulatory approvals and may not receive necessary approvals to commercialize our products in any market. The failure to obtain these approvals could harm our business materially.

***Our product candidates may cause undesirable side effects or have other properties that could delay or prevent their regulatory approval or limit their marketability.***

Undesirable side effects caused by our product candidates could interrupt, delay or halt clinical trials and could result in the denial of regulatory approval by the FDA or other regulatory authorities for any or all targeted indications, and in turn prevent us from commercializing our product candidates and generating revenues from their sale. For example, like many other drugs in its class, Fiapta<sup>™</sup> is associated with a prolongation of the heart's QTc interval, which is a measurement of specific electrical activity in the heart as captured on an electrocardiogram, corrected for heart rate. A QTc interval that is significantly prolonged may result in an abnormal heart rhythm with adverse consequences including fainting, dizziness, loss of consciousness and death. No patient in the controlled portion of any of Fiapta<sup>™</sup>'s clinical trials was observed to have an interval that exceeded a 500-millisecond threshold of particular concern to the FDA. Two patients experienced a prolongation of 500 milliseconds or more during the open-label extension of one trial. We will continue to assess the side-effect profile of Fiapta<sup>™</sup> and our other product candidates in our ongoing clinical development program.

In addition, if any of our product candidates receive marketing approval and we or others later identify undesirable side effects caused by the product, we could face one or more of the following:

- regulatory authorities may require the addition of labeling statements, such as a “black box” warning or a contraindication
- regulatory authorities may withdraw their approval of the product
- we may be required to change the way the product is administered, conduct additional clinical trials or change the labeling of the product
- our reputation may suffer

Any of these events could prevent us from achieving or maintaining market acceptance of the affected product or could substantially increase the costs and expenses of commercializing the product candidate, which in turn could delay or prevent us from generating significant revenues from its sale.

***Our product candidates may never achieve market acceptance even if we obtain regulatory approvals.***

Even if we receive regulatory approvals for the sale of our product candidates, the commercial success of these products will depend, among other things, on their acceptance by physicians, patients, third-party payors and other members of the medical community as a therapeutic and cost-effective alternative to competing products and treatments. The degree of market acceptance of any of our product candidates will depend on a number of factors, including the demonstration of its safety and efficacy, its cost-effectiveness, its potential advantages over other therapies, the reimbursement policies of government and third-party payors with respect to the product candidate, and the effectiveness of our marketing and distribution capabilities. If our product candidates fail to gain market acceptance, we may be unable to earn sufficient revenue to continue our business. If our product candidates do not become widely accepted by physicians, patients, third-party payors and other members of the medical community, it is unlikely that we will ever become profitable.

***If we fail to obtain the capital necessary to fund our research and development activities, we may be unable to continue operations or we may be forced to share our rights to commercialize our product candidates with third parties on terms that may not be attractive to us.***

Based on our current operating plans, we believe that our existing cash, cash equivalents and marketable securities, will be sufficient to meet our anticipated operating needs into the fourth quarter of 2008. If Fiapta<sup>™</sup> is approved by the FDA on the expected PDUFA action date of or about July 27, 2008, the Company intends to pursue additional financing, in part to fund additional marketing and product launch costs. The Company believes that it would be able to raise sufficient capital to fund the product launch and operations into 2009. However, if the Company cannot obtain additional financing, management has the ability and intent to implement a reduced spending plan to fund operations at least through the first quarter of 2009. In budgeting for our activities, we have relied on a number of assumptions, including assumptions that we will continue to expend funds in preparation of a commercial launch of Fiapta<sup>™</sup>, that we will complete our Phase III clinical trial of VEC-162 for the treatment of chronic insomnia in accordance with our expectations, that we will not engage in further in-licensing activities, that we will not receive any proceeds from potential partnerships, that we will not expend funds on the bipolar indication for Fiapta<sup>™</sup>, that we will not conduct additional trials for the injectable formulation for Fiapta<sup>™</sup>, that we will not conduct additional trials for VSF-173, that we will continue to evaluate pre-clinical compounds for potential development, that we will be able to continue the manufacturing of our product candidates at commercially reasonable prices, that we will be able to retain our key personnel, and that we will not incur any significant contingent liabilities. We may need to raise additional funds more quickly if one or more of our assumptions proves to be incorrect, if we choose to expand our product development efforts more rapidly than presently anticipated, or if we seek to acquire additional product candidates. We may also decide to raise additional funds even before they are needed if the conditions for raising capital are favorable.

In our capital-raising efforts, we may seek to sell additional equity or debt securities or to obtain a bank credit facility. The sale of additional equity or debt securities, if convertible, could result in dilution to our stockholders. The incurrence of indebtedness would result in increased fixed obligations and could also result in covenants that would restrict our operations.

We cannot assure you that additional capital will be available when we need it on terms that are acceptable to us, or at all. The unavailability of financing may require us to delay, scale back or eliminate expenditures for our research, development and marketing activities necessary to commercialize our potential biopharmaceutical products. If we are unable to secure sufficient capital to fund our research and development activities, we may not be able to continue operations or we may have to enter into collaboration agreements that could require us to share commercial rights to our products to a greater extent or at earlier stages in the drug development process than we currently intend. Collaborations that are consummated by us prior to proof-of-efficacy and safety of a product candidate could impair our ability to realize value from that product candidate.

***We have incurred operating losses in each year since our inception and expect to continue to incur substantial and increasing losses for the foreseeable future.***

We have a limited operating history. We have not generated any revenue from product sales to date and we cannot estimate with precision the extent of our future losses. We do not currently have any products that have been approved for commercial sale and we may never generate revenue from selling products or achieve profitability. We expect to continue to incur substantial and increasing losses for the foreseeable future, particularly as we increase our research, clinical development and administrative activities. As a result, we are uncertain when or if we will achieve profitability and, if so, whether we will be able to sustain it. We have been engaged in identifying and developing compounds and product candidates since March 2003. As of December 31, 2007, we have accumulated net losses of approximately \$173.9 million. Our ability to achieve revenue and profitability is dependent on our ability to complete the development of our product candidates, obtain necessary regulatory approvals, and have our products manufactured and marketed. We cannot assure you that we will be profitable even if we successfully commercialize our products. Failure to become and remain profitable may adversely affect the market price of our common stock and our ability to raise capital and continue operations.

***If our contract research organizations do not successfully carry out their duties or if we lose our relationships with contract research organizations, our drug development efforts could be delayed.***

We are dependent on contract research organizations, third-party vendors and investigators for pre-clinical testing and clinical trials related to our drug discovery and development efforts and we will likely continue to depend on them to assist in our future discovery and development efforts. These parties are not our employees and we cannot control the amount or timing of resources that they devote to our programs. If they fail to devote sufficient time and resources to our drug development programs or if their performance is substandard, it will delay the development and commercialization of our product candidates. The parties with which we contract for execution of our clinical trials play a significant role in the conduct of the trials and the subsequent collection and analysis of data. Their failure to meet their obligations could adversely affect clinical development of our product candidates. Moreover, these parties may also have relationships with other commercial entities, some of which may compete with us. If they assist our competitors, it could harm our competitive position.

If we lose our relationship with any one or more of these parties, we could experience a significant delay in both identifying another comparable provider and then contracting for its services. We may be unable to retain an alternative provider on reasonable terms, if at all. Even if we locate an alternative provider, it is likely that this provider may need additional time to respond to our needs and may not provide the same type or level of service as the original provider. In addition, any provider that we retain will be subject to current Good Laboratory Practices, or cGLP, and similar foreign standards and we do not have control over compliance with these regulations by these providers. Consequently, if these practices and standards are not adhered to by these providers, the development and commercialization of our product candidates could be delayed.

***We rely on a limited number of manufacturers for our product candidates and our business will be seriously harmed if these manufacturers are not able to satisfy our demand and alternative sources are not available.***

We do not have an in-house manufacturing capability and depend completely on a small number of third-party manufacturers and active pharmaceutical ingredient formulators for the manufacture of our product candidates. We do not have long-term agreements with any of these third parties, and if they are unable or unwilling to perform for any reason, we may not be able to locate alternative acceptable manufacturers or formulators or enter into favorable agreements with them. Any inability to acquire sufficient quantities of our product candidates in a timely manner from these third parties could delay clinical trials and prevent us from developing our product candidates in a cost-effective manner or on a timely basis. In addition, manufacturers of our product candidates are subject to cGMP and similar foreign standards and we do not have control over compliance with these regulations by our manufacturers. If one of our contract manufacturers fails to maintain compliance, the production of our product candidates could be interrupted, resulting in delays and additional

costs. In addition, if the facilities of such manufacturers do not pass a pre-approval plant inspection, the FDA will not grant pre-market approval of our products.

Our manufacturing strategy presents the following additional risks:

- the manufacturing process for VSF-173 has not been tested in quantities needed for continued clinical trials or commercial sales, and delays in scale-up to commercial quantities of VEC-162 and VSF-173 could delay clinical trials, regulatory submissions and commercialization of these product candidates
- because most of our third-party manufacturers and formulators are located outside of the United States, there may be difficulties in importing our compounds or their components into the United States as a result of, among other things, FDA import inspections, incomplete or inaccurate import documentation or defective packaging
- because of the complex nature of our compounds, our manufacturers may not be able to successfully manufacture our compounds in a cost-effective and/or timely manner

***Materials necessary to manufacture our product candidates may not be available on commercially reasonable terms, or at all, which may delay the development, regulatory approval and commercialization of our product candidates.***

We rely on our manufacturers to purchase from third-party suppliers the materials necessary to produce our product candidates for our clinical trials. Suppliers may not sell these materials to our manufacturers at the times we need them or on commercially reasonable terms. We do not have any control over the process or timing of the acquisition of these materials by our manufacturers. Moreover, we currently do not have any agreements for the commercial production of these materials. If our manufacturers are unable to obtain these materials for our clinical trials, product testing and potential regulatory approval of our product candidates could be delayed, significantly affecting our ability to develop our product candidates. If we or our manufacturers are unable to purchase these materials after regulatory approval has been obtained for our product candidates, the commercial launch of our product candidates would be delayed or there would be a shortage in supply, which would materially affect our ability to generate revenues from the sale of our product candidates.

***We face substantial competition which may result in others developing or commercializing products before or more successfully than we do.***

Our future success will depend on our ability to demonstrate and maintain a competitive advantage with respect to our product candidates and our ability to identify and develop additional product candidates through the application of our pharmacogenetics and pharmacogenomics expertise. Large, fully integrated pharmaceutical companies, either alone or together with collaborative partners, have substantially greater financial resources and have significantly greater experience than we do in:

- developing products
- undertaking pre-clinical testing and clinical trials
- obtaining FDA and other regulatory approvals of products
- manufacturing and marketing products

These companies may invest heavily and quickly to discover and develop novel products that could make our product candidates obsolete. Accordingly, our competitors may succeed in obtaining patent protection, receiving FDA approval or commercializing superior products or other competing products before we do.

We believe the primary competitors for each of our product candidates are as follows:

- For Fiapta™ in the treatment of schizophrenia, the atypical antipsychotics Risperdal® (risperidone), including the depot formulation Risperdal® Consta®, and Invega® (paliperidone), each by Ortho-McNeil-Janssen Pharmaceuticals, Inc., Zyprexa® (olanzapine) by Eli Lilly and Company, Seroquel® (quetiapine) by AstraZeneca PLC, Abilify® (aripiprazole) by Bristol-Myers Squibb Company/Otsuka Pharmaceutical Co., Ltd., Geodon® (ziprasidone) by Pfizer Inc., and generic clozapine, as well as the

typical antipsychotics haloperidol, chlorpromazine, thioridazine, and sulpiride (all of which are generic). In addition to the approved products, compounds in Phase III trials (or for which an NDA has been recently filed) for the treatment of schizophrenia include bifeprunox (Solvay S.A./Lundbeck A/S), and asenapine (Schering-Plough Corporation) and pimavanserin (Acadia Pharmaceuticals).

- For VEC-162 in the treatment of insomnia, Rozerem™ (ramelteon) by Takeda Pharmaceuticals Company Limited, hypnotics such as Ambien® (zolpidem) by sanofi-aventis (including Ambien CR®), Lunesta® (eszopiclone) by Sepracor Inc. and Sonata® (zaleplon) by King Pharmaceuticals, Inc., generic compounds such as trazodone and doxepin, and over-the-counter remedies such as Benadryl® and Tylenol PM®. In addition to the approved products, compounds in Phase III trials for insomnia (or for which an NDA has been recently filed) include indiplon (Neurocrine Biosciences, Inc.) and low-dose doxepin (Silenor™) by Somaxon Pharmaceuticals, Inc.
- For VEC-162 in the treatment of depression, antidepressants such as Paxil® (paroxetine) by GlaxoSmithKline (GSK), Zoloft® (sertraline) by Pfizer, Prozac® (fluoxetine) by Eli Lilly, Lexapro (escitalopram) by Lundbeck A/S /Forest Pharmaceuticals Inc., and Effexor® (venlafaxine) by Wyeth as well as other compounds such as Wellbutrin® (bupropion) by GSK and Cymbalta® (duloxetine) by Eli Lilly. In addition to the approved products, compounds in Phase III trials for depression include agomelatine (Novartis and Les Laboratoires Servier).
- For VSF-173 in the treatment of excessive sleepiness, Provigil® (modafinil) and Nuvigil® (armodafinil) by Cephalon Inc., and Xyrem® (sodium oxybate) by Jazz Pharmaceuticals, Inc.

Additionally, our ability to compete may be affected because insurers and other third-party payors in some cases seek to encourage the use of cheaper, generic products, which could make our products less attractive.

***We have no experience selling, marketing or distributing products and no internal capability to do so.***

At present, we have limited marketing and sales personnel. In order for us to commercialize any of our product candidates, we must either acquire or internally develop sales, marketing and distribution capabilities, or enter into collaborations with partners to perform these services for us. We may not be able to establish sales and distribution partnerships on acceptable terms or at all, and if we do enter into a distribution arrangement, our success will be dependent upon the performance of our partner. In the event that we attempt to acquire or develop our own in-house sales, marketing and distribution capabilities, factors that may inhibit our efforts to commercialize our products without partners or licensees include:

- our inability to recruit and retain adequate numbers of effective sales and marketing personnel
- the inability of sales personnel to obtain access to or persuade adequate numbers of physicians to prescribe our product
- the lack of complementary products to be offered by our sales personnel, which may put us at a competitive disadvantage against companies with broader product lines
- unforeseen costs associated with creating our own sales and marketing team or with entering into a partnering agreement with an independent sales and marketing organization

***We will need to increase the size of our organization, and we may experience difficulties in managing our growth.***

As of December 31, 2007, we had 50 full-time employees. We will need to expand our managerial, operational, financial and other resources in order for us to manage and fund our operations, continue our development activities and commercialize our product candidates. Our current personnel, systems and facilities are not adequate to support this future growth. To manage our growth, we must:

- manage our clinical trials effectively
- manage our internal development efforts effectively

- improve our operational, financial, accounting and management controls, reporting systems and procedures
- build marketing and sales organizations in order to commercialize Fiapta™
- attract and retain sufficient numbers of talented employees

We may be unable to successfully implement these tasks on a larger scale and, accordingly, may not achieve our development and commercialization goals.

***If we cannot identify, or enter into licensing arrangements for, new product candidates, our ability to develop a diverse product portfolio may be limited.***

A component of our business strategy is acquiring rights to develop and commercialize compounds discovered or developed by other pharmaceutical and biotechnology companies for which we may find effective uses and markets through our unique pharmacogenetics and pharmacogenomics expertise. Competition for the acquisition of these compounds is intense. If we are not able to identify opportunities to acquire rights to commercialize additional products, we may not be able to develop a diverse portfolio of products and our business may be harmed. Additionally, it may take substantial human and financial resources to secure commercial rights to promising product candidates. Moreover, if other firms develop pharmacogenetics and pharmacogenomics capabilities, we may face increased competition in identifying and acquiring additional product candidates.

***If we lose key scientists or management personnel, or if we fail to recruit additional highly skilled personnel, it will impair our ability to identify, develop and commercialize product candidates.***

We are highly dependent on principal members of our management team and scientific staff, including our Chief Executive Officer, Mihael H. Polymeropoulos, M.D. These executives each have significant pharmaceutical industry experience. The loss of any such executives, including Dr. Polymeropoulos, or any other principal member of our management team or scientific staff, would impair our ability to identify, develop and market new products.

***Product liability lawsuits could divert our resources, result in substantial liabilities and reduce the commercial potential of our products.***

The risk that we may be sued on product liability claims is inherent in the development of pharmaceutical products. For example, we face a risk of product liability exposure related to the testing of our product candidates in clinical trials and will face even greater risks upon any commercialization by us of our product candidates. We believe that we may be at a greater risk of product liability claims relative to other pharmaceutical companies because our compounds are intended to treat behavioral disorders, and it is possible that we may be held liable for the behavior and actions of patients who use our compounds. These lawsuits may divert our management from pursuing our business strategy and may be costly to defend. In addition, if we are held liable in any of these lawsuits, we may incur substantial liabilities and may be forced to limit or forego further commercialization of one or more of our products. Although we maintain general liability and product liability insurance, our aggregate coverage limit under this insurance is \$10,000,000, and while we believe this amount of insurance is sufficient to cover our product liability exposure, these limits may not be high enough to fully cover potential liabilities. In addition, product liability insurance is becoming increasingly expensive, and we may not be able to obtain or maintain sufficient insurance coverage at an acceptable cost or otherwise to protect against potential product liability claims, which could prevent or inhibit the commercial production and sale of our products.

***Legislative or regulatory reform of the healthcare system in the U.S. and foreign jurisdictions may affect our ability to sell our products profitably.***

The continuing efforts of the U.S. and foreign governments, insurance companies, managed care organizations and other payors of health care services to contain or reduce health care costs may adversely

affect our ability to set prices for our products which we believe are fair, and our ability to generate revenues and achieve and maintain profitability.

Specifically, in both the United States and some foreign jurisdictions there have been a number of legislative and regulatory proposals to change the healthcare system in ways that could affect our ability to sell our products profitably. In the United States, the Medicare Prescription Drug Improvement and Modernization Act of 2003 reforms the way Medicare will cover and reimburse for pharmaceutical products. This legislation could decrease the coverage and price that we may receive for our products. Other third-party payors are increasingly challenging the prices charged for medical products and services. It will be time-consuming and expensive for us to go through the process of seeking reimbursement from Medicare and private payors. Our products may not be considered cost effective, and coverage and reimbursement may not be available or sufficient to allow us to sell our products on a competitive and profitable basis. Further federal and state proposals and healthcare reforms are likely which could limit the prices that can be charged for the drugs we develop and may further limit our commercial opportunity. Our results of operations could be materially adversely affected by the Medicare prescription drug coverage legislation, by the possible effect of this legislation on amounts that private insurers will pay and by other healthcare reforms that may be enacted or adopted in the future.

In some foreign countries, including major markets in the European Union and Japan, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take nine to twelve months or longer after the receipt of regulatory marketing approval for a product. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of our product candidate to other available therapies. Our business could be materially harmed if reimbursement of our products is unavailable or limited in scope or amount or if pricing is set at unsatisfactory levels.

***Recently enacted legislation may make it more difficult and costly for us to obtain regulatory approval of our product candidates and to produce, to market and to distribute our existing products.***

On September 27, 2007, President Bush signed into law the Food and Drug Administration Amendments Act of 2007 or the FDAAA. The FDAAA grants a variety of new powers to the FDA, many of which are aimed at assuring drug safety and monitoring the safety of drug products after approval. The recently enacted amendments would among other things, require all new drug applicants to submit risk evaluation and minimization plans to monitor and address potential safety issues for products upon approval, grant the FDA the authority to impose risk management measures for marketed products and to mandate labeling changes in certain circumstances, and establish new requirements for disclosing the results of clinical trials. Under the FDAAA, companies that violate the new law are subject to substantial civil monetary penalties. Additional measures have also been enacted to address the perceived shortcomings in the FDA's handling of drug safety issues, and to limit pharmaceutical company sales and promotional practices. While we expect the FDAAA to have a substantial effect on the pharmaceutical industry, the extent of that effect is not yet known. As the FDA issues regulations, guidance and interpretations relating to the new legislation, the impact on the industry as well as our business will become clearer. The new requirements and other changes that the FDAAA imposes may make it more difficult, and likely more costly, to obtain approval of new pharmaceutical products and to produce, market and distribute existing products. Our ability to commercialize approved products successfully may be hindered, and our business may be harmed as a result.

***Our quarterly operating results may fluctuate significantly.***

Our operating results will continue to be subject to quarterly fluctuations. The revenues we generate, if any, and our operating results will be affected by numerous factors, including:

- our addition or termination of development programs
- variations in the level of expenses related to our existing three product candidates or future development programs

- our execution of collaborative, licensing or other arrangements, and the timing of payments we may make or receive under these arrangements
- any intellectual property infringement lawsuit in which we may become involved
- regulatory developments affecting our product candidates or those of our competitors

If our quarterly operating results fall below the expectations of investors or securities analysts, the price of our common stock could decline substantially. Furthermore, any quarterly fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially. We believe that quarterly comparisons of our financial results are not necessarily meaningful and should not be relied upon as an indication of our future performance.

#### **Risks related to intellectual property and other legal matters**

***Our rights to develop and commercialize our product candidates are subject in part to the terms and conditions of licenses or sublicenses granted to us by other pharmaceutical companies. With respect to VEC-162 and VSF-173, these terms and conditions include options in favor of these pharmaceutical companies to reacquire rights to commercialize and develop these product candidates in certain circumstances.***

Fiapta™ (iloperidone) is based in part on patents and other intellectual property owned by sanofi-aventis and Novartis. Titan Pharmaceuticals, Inc. (Titan) holds an exclusive license from sanofi-aventis to the intellectual property owned by sanofi-aventis, and Titan has sublicensed its rights under such license on an exclusive basis to Novartis. We have acquired exclusive rights to this and other intellectual property through a further sublicense from Novartis. Our rights with respect to the intellectual property to develop and commercialize Fiapta™ may terminate, in whole or in part, if we fail to meet certain milestones contained in our sublicense agreement with Novartis relating to the time it takes for us to launch Fiapta™ commercially following regulatory approval, and the time it takes for us to receive regulatory approval following our submission of an NDA or equivalent foreign filing. We may also lose our rights to develop and commercialize Fiapta™ if we fail to pay royalties to Novartis, if we fail to comply with certain requirements in the sublicense agreement regarding our financial condition, or if we fail to comply with certain restrictions regarding our other development activities. Finally, our rights to develop and commercialize Fiapta™ may be impaired if we do not cure breaches by Novartis and Titan of similar obligations contained in these sublicense and license agreements, although we are not aware of any such breach by Titan or Novartis. In the event of an early termination of our sublicense agreement, all rights licensed and developed by us under this agreement may be extinguished, which would have a material adverse effect on our business.

VEC-162 is based in part on patents that we have licensed on an exclusive basis and other intellectual property licensed from Bristol-Myers Squibb Company (BMS). BMS holds certain rights with respect to VEC-162 in the license agreement. If we have not agreed to one or more partnering arrangements to develop and commercialize VEC-162 in certain significant markets with one or more third parties after the completion of the Phase III program, BMS has the option to exclusively develop and commercialize VEC-162 on its own on pre-determined financial terms, including milestone and royalty payments. If we seek a co-promotion agreement for VEC-162, BMS has a right of first negotiation to enter into such an agreement with us. BMS may terminate our license if we fail to meet certain milestones or if we otherwise breach our royalty or other obligations in the agreement. In the event that we terminate our license, or if BMS terminates our license due to our breach, all of our rights to VEC-162 (including any intellectual property we develop with respect to VEC-162) will revert back to BMS or otherwise be licensed back to BMS on an exclusive basis. Any termination or reversion of our rights to develop or commercialize VEC-162, including any reacquisition by BMS of our rights, may have a material adverse effect on our business.

VSF-173 is based in part on patents and other intellectual property that we have licensed on an exclusive basis from Novartis. Novartis has the option to reacquire rights to co-develop and exclusively commercialize VSF-173 following the completion of the Phase II trials, and an additional option to reacquire co-development rights and exclusive commercialization rights following the completion of the Phase III clinical trials, subject

in each case to Novartis' payment of pre-determined royalties and other payments to us. In the event that Novartis chooses not to exercise either of these options and we decide to enter into a partnering arrangement to help us commercialize VSF-173, Novartis has a right of first refusal to negotiate such an agreement with us, as well as a right to submit a last matching counteroffer regarding such an agreement. In addition, our rights with respect to VSF-173 may terminate, in whole or in part, if we fail to meet certain development and commercialization milestones described in our license agreement relating to the time it takes us to complete our development work on VSF-173. These rights may also terminate in whole or in part if we fail to make royalty or milestone payments or if we do not comply with requirements in our license agreement regarding our financial condition. In the event of an early termination of our license agreement, all rights licensed and developed by us under this agreement may revert back to Novartis. Any termination or reversion of our rights to develop or commercialize VSF-173, including any reacquisition by Novartis of our rights, may have a material adverse effect on our business.

***If our efforts to protect the proprietary nature of the intellectual property related to our products are not adequate, we may not be able to compete effectively in our markets.***

In addition to the rights we have licensed from Novartis and BMS relating to our product candidates, we rely upon intellectual property we own relating to our products, including patents, patent applications and trade secrets. As of December 31, 2007 we had twenty one pending provisional patent applications in the United States, two U.S. national stage applications under U.S.C. 371 and eight pending Patent Cooperation Treaty applications, which permit the pursuit of patents outside of the U.S., relating to our product candidates in clinical development. Our patent applications may be challenged or fail to result in issued patents and our existing or future patents may be too narrow to prevent third parties from developing or designing around these patents. In addition, we rely on trade secret protection and confidentiality agreements to protect certain proprietary know-how that is not patentable, for processes for which patents are difficult to enforce and for any other elements of our drug development processes that involve proprietary know-how, information and technology that is not covered by patent applications. While we require all of our employees, consultants, advisors and any third parties who have access to our proprietary know-how, information and technology to enter into confidentiality agreements, we cannot be certain that this know-how, information and technology will not be disclosed or that competitors will not otherwise gain access to our trade secrets or independently develop substantially equivalent information and techniques. Further, the laws of some foreign countries do not protect proprietary rights to the same extent as the laws of the United States. As a result, we may encounter significant problems in protecting and defending our intellectual property both in the United States and abroad. If we are unable to protect or defend the intellectual property related to our technologies, we will not be able to establish or maintain a competitive advantage in our market.

***If we do not obtain protection under the Hatch-Waxman Act and similar foreign legislation to extend our patents and to obtain market exclusivity for our product candidates, our business will be materially harmed.***

The United States Drug Price Competition and Patent Term Restoration Act of 1984, more commonly known as the "Hatch-Waxman Act," provides for an extension of patent protection for drug compounds for a period of up to five years to compensate for time spent in development. Assuming we gain a five-year extension for each of our current product candidates in clinical development, and that we continue to have rights under our sublicense and license agreements with respect to these product candidates, we would have exclusive rights to Fiapta<sup>™</sup>'s United States "new chemical entity" patent (the primary patent covering the compound as a new composition of matter) until 2016, to VEC-162's United States new chemical entity patent until 2022 and to VSF-173's United States new chemical entity patent until 2019. In Europe, similar legislative enactments allow patent protection in the European Union to be extended for up to five years through the grant of a Supplementary Protection Certificate. Assuming we gain such a five-year extension for each of our current product candidates in clinical development, and that we continue to have rights under our sublicense and license agreements with respect to these product candidates, we would have exclusive rights to Fiapta<sup>™</sup>'s European new chemical entity patents until 2015, to VEC-162's European new chemical entity patents until 2022 and to VSF-173's European new chemical entity patents until 2017. Additionally, a directive in the

European Union provides that companies who receive regulatory approval for a new compound will have a 10-year period of market exclusivity for that compound (with the possibility of a further one-year extension) in most countries in Europe, beginning on the date of such European regulatory approval, regardless of when the European new chemical entity patent covering such compound expires. A generic version of the approved drug may not be marketed or sold during such market exclusivity period. This directive may be of particular importance with respect to Fiapta™, since the European new chemical entity patent for Fiapta™ will likely expire prior to the end of this 10-year period of market exclusivity. However, there is no assurance that we will receive the extensions of our patents or other exclusive rights available under the Hatch-Waxman Act or similar foreign legislation. If we fail to receive such extensions and exclusive rights, our ability to prevent competitors from manufacturing, marketing and selling generic versions of our products will be materially harmed.

***Litigation or third-party claims of intellectual property infringement could require us to divert resources and may prevent or delay our drug discovery and development efforts.***

Our commercial success depends in part on our not infringing the patents and proprietary rights of third parties. Third parties may assert that we are employing their proprietary technology without authorization. In addition, third parties may obtain patents in the future and claim that use of our technologies infringes upon these patents. Furthermore, parties making claims against us may obtain injunctive or other equitable relief, which could effectively block our ability to develop and commercialize one or more of our product candidates. Defense of these claims, regardless of their merit, would divert substantial financial and employee resources from our business. In the event of a successful claim of infringement against us, we may have to pay substantial damages, obtain one or more licenses from third parties or pay royalties. In addition, even in the absence of litigation, we may need to obtain additional licenses from third parties to advance our research or allow commercialization of our product candidates. We may fail to obtain any of these licenses at a reasonable cost or on reasonable terms, if at all. In that event, we would be unable to develop and commercialize further one or more of our product candidates.

In addition, in the future we could be required to initiate litigation to enforce our proprietary rights against infringement by third parties. Prosecution of these claims to enforce our rights against others could divert substantial financial and employee resources from our business. If we fail to enforce our proprietary rights against others, our business will be harmed.

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

Our research and development activities involve the controlled use of potentially hazardous substances, including toxic chemical and biological materials. We could be held liable for any contamination, injury or other damages resulting from these hazardous substances. In addition, our operations produce hazardous waste products. While third parties are responsible for disposal of our hazardous waste, we could be liable under environmental laws for any required cleanup of sites at which our waste is disposed. Federal, state, foreign and local laws and regulations govern the use, manufacture, storage, handling and disposal of these hazardous materials. If we fail to comply with these laws and regulations at any time, or if they change, we may be subject to criminal sanctions and substantial civil liabilities, which may adversely affect our business.

Even if we continue to comply with all applicable laws and regulations regarding hazardous materials, we cannot eliminate the risk of accidental contamination or discharge and our resultant liability for any injuries or other damages caused by these accidents. Although we maintain pollution liability insurance, our coverage limit under this insurance is \$2,000,000, and while we believe this amount and type of insurance is sufficient to cover risks typically associated with our handling of materials, the insurance may not cover all environmental liabilities, and these limits may not be high enough to cover potential liabilities for these damages fully. The amount of uninsured liabilities may exceed our financial resources and materially harm our business.

## Risks related to our common stock

***Our stock price has been volatile and may be volatile in the future, and purchasers of our common stock could incur substantial losses.***

The stock market has from time to time experienced significant price and volume fluctuations, and the market prices of the securities of life sciences companies without product revenues, such as ours, have historically been highly volatile. Between March 1, 2007 and March 1, 2008, the high and low sale prices of our common stock as reported on the NASDAQ Global Market varied between \$25.58 and \$4.09. The following factors, in addition to the other risk factors described in this section, may also have a significant impact on the market price of our common stock:

- publicity regarding actual or potential testing or trial results or the outcome of regulatory review relating to products under development by us or our competitors
- regulatory developments in the United States and foreign countries
- developments concerning any collaboration or other strategic transaction we may undertake
- announcements of patent issuances or denials, technological innovations or new commercial products by us or our competitors
- actual or anticipated variations in our quarterly operating results
- changes in estimates of our financial results or recommendations by securities analysts
- additions or departures of key personnel or members of our board of directors
- publicity regarding actual or potential transactions involving the Company
- economic and other external factors beyond our control

As a result of these factors, holders of our common stock might be unable to sell their shares at or above the price they paid for such shares.

***If there are substantial sales of our common stock, our stock price could decline.***

A small number of early investors in our company who held our stock prior to the sale of shares in our initial public offering continue to hold a substantial number of shares of our common stock. Additionally, a small number of institutional investors and private equity funds continue to hold a significant number of shares of our common stock. Sales by these stockholders of a substantial number of shares, or the expectation of such sales, could cause a significant reduction in the market price of our common stock. Additionally, the holders of a substantial number of shares of our common stock have rights, subject to certain conditions, to require us to file registration statements to permit the resale of these shares in the public market or to include their shares in registration statements that we may file for ourselves or other stockholders.

In addition to our outstanding common stock, as of December 31, 2007 there were a total of 2,938,610 shares of common stock that we have registered and that we are obligated to issue upon the exercise of currently outstanding options granted under our Second Amended and Restated Management Equity Plan and 2006 Equity Incentive Plan. Upon the exercise of these options in accordance with their respective terms, these shares may be resold freely, subject to restrictions imposed on our affiliates under Rule 144. If significant sales of these shares occur in short periods of time, these sales could reduce the market price of our common stock. Any reduction in the trading price of our common stock could impede our ability to raise capital on attractive terms.

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

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business. If one or more of the analysts who covers the Company

downgrades our stock, our stock price would likely decline. If one or more of these analysts ceases to cover us or fails to publish regular reports on us, interest in the purchase of our stock could decrease, which could cause our stock price or trading volume to decline.

***Anti-takeover provisions in our charter and bylaws, and in Delaware law, could prevent or delay a change in control of our company.***

We are a Delaware corporation and the anti-takeover provisions of Section 203 of the Delaware General Corporation Law may discourage, delay or prevent a change in control by prohibiting us from engaging in a business combination with an interested stockholder for a period of three years after the person becomes an interested stockholder, even if a change of control would be beneficial to our existing stockholders. In addition, our amended and restated certificate of incorporation and bylaws may discourage, delay or prevent a change in our management or control over us that stockholders may consider favorable. Our amended and restated certificate of incorporation and bylaws:

- authorize the issuance of “blank check” preferred stock that could be issued by our board of directors to thwart a takeover attempt
- do not provide for cumulative voting in the election of directors, which would allow holders of less than a majority of the stock to elect some directors
- establish a classified board of directors, as a result of which the successors to the directors whose terms have expired will be elected to serve from the time of election and qualification until the third annual meeting following their election
- require that directors only be removed from office for cause
- provide that vacancies on the board of directors, including newly-created directorships, may be filled only by a majority vote of directors then in office
- limit who may call special meetings of stockholders
- prohibit stockholder action by written consent, requiring all actions to be taken at a meeting of the stockholders
- establish advance notice requirements for nominating candidates for election to the board of directors or for proposing matters that can be acted upon by stockholders at stockholder meetings

**ITEM 1B. UNRESOLVED STAFF COMMENTS**

Not applicable.

**ITEM 2. PROPERTIES**

Our current headquarters are located in Rockville, Maryland, consisting of approximately 27,000 square feet of office and laboratory space. Our lease for this facility expires in 2016.

In September 2007, we sublet a portion of our previous headquarters in Rockville, Maryland for the remaining term of the lease expiring in June 2008.

Management believes that the leased facilities are suitable and adequate to meet the Company’s anticipated needs.

**ITEM 3. LEGAL PROCEEDINGS**

The Company is not a party to any material pending legal proceedings, and management is not aware of any contemplated proceedings by any governmental authority against the Company.

**ITEM 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS**

None.

**PART II**

**ITEM 5. MARKET FOR REGISTRANT’S COMMON EQUITY, RELATED SHAREHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

Our common stock is quoted on The NASDAQ Global Market under the symbol “VNDA.” The following table sets forth, for the periods indicated, the range of high and low sale prices of our common stock as reported on The NASDAQ Global Market since our initial public offering on April 12, 2006.

<u>Year Ended December 31, 2006</u>	<u>High</u>	<u>Low</u>
April 12, 2006 — June 30, 2006	\$ 11.35	\$ 7.21
Third quarter 2006	\$ 10.10	\$ 8.02
Fourth quarter 2006	\$28.67	\$ 8.95
<u>Year Ended December 31, 2007</u>	<u>High</u>	<u>Low</u>
First quarter 2007	\$ 32.00	\$21.69
Second quarter 2007	\$ 24.31	\$ 18.75
Third quarter 2007	\$21.50	\$ 13.23
Fourth quarter 2007	\$ 19.40	\$ 6.49

As of March 7, 2008, there were 29 holders of record of our common stock.

**Dividends**

The Company has not paid dividends to its shareholders since its inception and does not plan to pay dividends in the foreseeable future. The Company currently intends to retain earnings, if any, to finance the growth of the Company.

**Securities Authorized for Issuance Under Equity Compensation Plans**

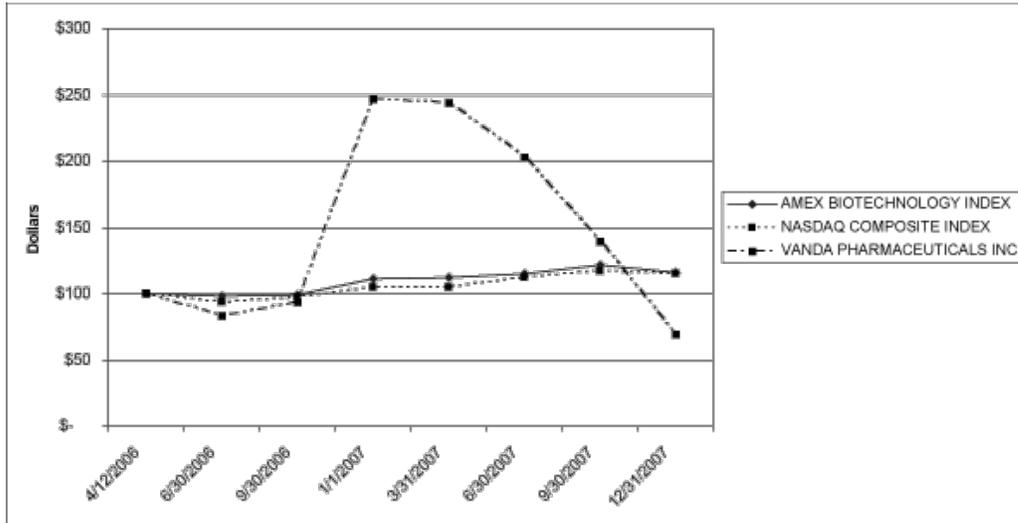
The following table sets forth information regarding securities authorized for issuance under our existing equity compensation plans as of December 31, 2007. The figures set forth in the following table opposite the row “Equity compensation plans approved by security holders” aggregate securities issued under our Second Amended and Restated Management Equity Plan and 2006 Equity Incentive Plan, both of which plans have been approved by our stockholders.

<u>Plan Category</u>	<u>Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants or Rights</u> (a)	<u>Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights</u> (b)	<u>Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (a))</u> (c)
Equity compensation plans approved by security holders	2,938,610	\$ 16.39	**616,506
Equity compensation plans not approved by security holders	—	—	—
<b>Total</b>	<b>2,938,610</b>	<b>\$ 16.39</b>	<b>**616,506</b>

\*\* Does not include 1,066,109 additional shares authorized for issuance under the 2006 Equity Incentive Plan effective as of January 1, 2008, as a result of the automatic annual increase in the number of shares authorized for issuance thereunder.

**Market Price of and Dividends on the Registrant’s Common Equity and Related Stockholder Matters**

The following graph shows the cumulative total return, assuming the investment of \$100 on April 12, 2006 (the date of the initial public offering) on an investment in each of the Company’s common stock, the NASDAQ Composite Index and the Amex Biotechnology Index (in either case, assuming reinvestment of dividends). The comparisons in the table are required by the SEC and are not intended to forecast or be indicative of possible future performance of the Company’s common stock. We have not paid dividends to our stockholders since the inception and do not plan to pay dividends in the foreseeable future. The following graph and related information is being furnished solely to accompany this Form 10-K pursuant to Item 201(e) of Regulation S-K and shall not be deemed “soliciting materials” or to be “filed” with the SEC (other than as provided in Item 201), nor shall such information be incorporated by reference into any of our filings under the Securities Act of 1933 or the Securities Exchange Act of 1934, whether made before or after the date hereof, and irrespective of any general incorporation language in any such filing.



**Use of Proceeds from Registered Securities**

We registered shares of our common stock in connection with our initial public offering under the Securities Act. Our Registration Statement on Form S-1 (Reg. No. 333-130759) in connection with our initial public offering was declared effective by the SEC on April 12, 2006. The offering was consummated on April 18, 2006 with respect to 5,750,000 shares of our common stock, and on April 25, 2006 with respect to 214,188 shares pursuant to the exercise by the underwriters of their over-allotment option.

We have used all of the proceeds of our initial public offering for research and development expenses, including for our clinical trials for Fiapta™ and VEC-162, for the generation and submission of an NDA for Fiapta™, for payments under the license agreements, for clinical manufacturing expenses relating to the development of our product candidates and for general corporate expenses. This use of proceeds is not materially different from the use of proceeds described in the final prospectuses for our initial public offering.

We also registered shares of our common stock in connection with our follow-on offering under the Securities Act. Our Registration Statement on Form S-1 (Reg. No. 333-139485 and No. 333-140081) in connection with our follow-on offering was declared effective by the SEC on January 18, 2007. The offering was consummated on January 24, 2007 with respect to all 4,370,000 shares of our common stock that were offered, including 570,000 of such shares that were offered pursuant to the exercise by the underwriters of their over-allotment option.

We have used a portion of, and intend to continue to use, the proceeds of our follow-on offering for research and development expenses, including for our clinical trials for Fiapta™ and VEC-162, for the

generation and submission of an NDA for Fiapta<sup>™</sup>, for payments under the license agreements, for clinical manufacturing expenses relating to the development of our product candidates and for general corporate expenses. The unused net proceeds from the follow-on offering are invested in investment grade securities. This use of proceeds is not materially different from the use of proceeds described in the final prospectuses for our follow-on offering. The amount and timing of our actual expenditures may vary significantly depending on numerous factors, such as the progress of our product development and commercialization efforts and the amount of cash used by our operations.

**ITEM 6. SELECTED CONSOLIDATED FINANCIAL DATA**

The consolidated statements of operations data for the years ended December 31, 2005, 2006 and 2007 and the consolidated balance sheet data as of December 31, 2006 and 2007 are each derived from our audited consolidated financial statements included in this annual report on Form 10-K. The consolidated statements of operations data for the period from March 13, 2003 (inception) to December 31, 2003 and for the year ended December 31, 2004 and the consolidated balance sheet data as of December 31, 2003, 2004 and 2005 are each derived from our audited consolidated financial statements not included herein. Our historical results for any prior period are not necessarily indicative of results to be expected in any future period.

The following data should be read together with our consolidated financial statements and accompanying notes and the section entitled “Management’s discussion and analysis of financial condition and results of operations” included in this annual report on Form 10-K.

	Period from March 13, 2003 (Inception) to December 31,				
	2003	2004	2005	2006	2007
<b>Statements of operations data</b>					
Revenue	\$ 47,565	\$ 33,980	\$ —	\$ —	\$ —
Operating expenses:					
Research and development	2,010,532	7,442,983	16,890,615	52,070,776	47,234,867
General and administrative	1,052,659	2,119,394	7,396,038	13,637,664	32,803,508
Total operating expenses	3,063,191	9,562,377	24,286,653	65,708,440	80,038,375
Loss from operations	(3,015,626)	(9,528,397)	(24,286,653)	(65,708,440)	(80,038,375)
Total other income, net	44,805	59,060	410,001	2,197,821	5,978,564
Loss before tax provision	(2,970,821)	(9,469,337)	(23,876,652)	(63,510,619)	(74,059,811)
Tax provision	—	4,949	7,649	549	9,879
Net loss	(2,970,821)	(9,474,286)	(23,884,301)	(63,511,168)	(74,069,690)
Beneficial conversion feature — deemed dividend to preferred stockholders(1)	—	—	(33,486,623)	—	—
Net loss attributable to common stockholders	\$ (2,970,821)	\$ (9,474,286)	\$ (57,370,924)	\$ (63,511,168)	\$ (74,069,690)
Basic and diluted net loss per share applicable to common stockholders	\$ (983.72)	\$ (3,137.18)	\$ (3,374.33)	\$ (3.97)	\$ (2.81)
Shares used in calculation of basic and diluted net loss per shares attributable to common stockholders	3,020	3,020	17,002	16,001,815	26,360,177

(1) In September and December of 2005, we completed the sale of an additional 27,235,783 shares of Series B preferred stock for net proceeds of approximately \$33.5 million. After evaluating the fair value of the common stock obtainable upon conversion by the stockholders, we determined that the issuance of the Series B preferred stock sold in 2005 resulted in a beneficial conversion feature which was fully accreted in 2005 and is recorded as a deemed dividend to preferred stockholders of approximately \$33.5 million for the year ended December 31, 2005.

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	As of December 31,				
	2003	2004	2005	2006	2007
<b>Balance sheet data</b>					
Cash and cash equivalents	\$ 7,165,722	\$ 16,259,770	\$ 21,012,815	\$ 30,928,895	\$ 41,929,533
Marketable securities	—	—	10,141,189	941,981	51,223,291
Working capital	6,204,248	14,827,621	28,308,434	24,714,285	74,177,567
Total assets	8,385,913	17,752,241	35,752,770	36,260,276	96,860,780
Total liabilities	1,378,880	1,808,654	5,087,963	9,503,404	13,131,849
Convertible preferred stock	9,963,541	28,308,564	61,795,187	—	—
Deficit accumulated during the development stage	(2,970,821)	(12,445,107)	(36,329,408)	(99,840,576)	(173,910,266)
Total stockholders' equity	7,007,033	15,943,587	30,664,807	26,756,872	83,728,931

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

*You should read the following discussion and analysis of our financial condition and results of operations together with "Selected Consolidated Financial Data" and our consolidated financial statements and related notes appearing at the end of this annual report on Form 10-K. Some of the information contained in this discussion and analysis or set forth elsewhere in this annual report on Form 10-K include historical information and other information with respect to our plans and strategy for our business and contain forward-looking statements that involve risk, uncertainties and assumptions. Our actual results may differ materially from those anticipated in these forward-looking statements as a result of certain factors, including but not limited to those set forth under the "Risk factors" section of this report and elsewhere in this annual report on Form 10-K.*

### Overview

We are a biopharmaceutical company focused on the development and commercialization of clinical-stage product candidates for central nervous system disorders, with exclusive worldwide commercial rights to three product candidates in clinical development for various central nervous system disorders. Our lead product candidate, Fiapta™ (iloperidone), is a compound for the treatment of schizophrenia and bipolar disorder. On November 27, 2007 the United States Food and Drug Administration (FDA) accepted our New Drug Application (NDA) for Fiapta™ in schizophrenia. Our second product candidate, VEC-162, is a compound for the treatment of sleep and mood disorders. In November 2006 we announced positive top-line results from our Phase III trial of VEC-162 in transient insomnia. In November 2007 we initiated, and in February 2008 we completed, an enrollment in a Phase III trial of VEC-162 in chronic primary insomnia. VEC-162 is also ready for Phase II trials for the treatment of depression. Our third product candidate, VSF-173, is a compound for the treatment of excessive sleepiness and is currently in a Phase II program.

We expect a decision from the FDA on the NDA for Fiapta™ in schizophrenia on or about July 27, 2008, its PDUFA action date, although the FDA may not meet, or may extend, the PDUFA action date. We will have to conduct additional Phase III trials for VEC-162 in chronic sleep disorders prior to our filing of an NDA for VEC-162. We will have to conduct additional Phase II trials for VSF-173 in order to further its development. Assuming successful outcomes of our clinical trials and approval by the FDA, we expect to commercialize Fiapta™ and VSF-173 with our own sales force in the U.S. and through a partnership in non-U.S. markets, and expect to commercialize VEC-162 through a partnership with a global pharmaceutical company, although we have not yet identified such a global partner.

We are a development stage enterprise and have accumulated net losses of approximately \$173.9 million since the inception of our operations through December 31, 2007. We have no product revenues to date and have no approved products for sale. Since we began our operations in March 2003, we have devoted substantially all of our resources to the in-licensing and clinical development of our product candidates. Our future operating results will depend largely on our ability to successfully develop and commercialize our lead product candidate, Fiapta™, and on the progress of other product candidates currently in our research and development pipeline. The results of our operations will vary significantly from year-to-year and quarter-to-quarter and depend on a number of factors, including risks related to our business, risks related to our industry, and other risks which are detailed in Item 1A of this report, entitled "Risk Factors."

We completed our initial public offering in April 2006. The offering totaled 5,964,188 shares of common stock at a public offering price of \$10.00, resulting in net proceeds to the Company of approximately \$53.3 million, after deducting underwriters' discounts and commissions as well as offering expenses. Upon completion of the initial public offering, all shares of the Company's Series A preferred stock and Series B preferred stock were converted into an aggregate of 15,794,632 shares of common stock.

In January 2007 we completed our follow-on offering, consisting of 4,370,000 shares of common stock at a public offering price of \$27.29 per share, resulting in net proceeds to the Company of approximately \$111.3 million after deducting underwriting discounts and commissions and offering expenses.

Based on our current operating plans, we believe that our existing cash, cash equivalents and marketable securities will be sufficient to meet our anticipated operating needs into the fourth quarter of 2008. If Fiapta™ is approved by the FDA on the expected PDUFA action date of or about July 27, 2008, the Company intends to pursue additional financing, in part to fund additional marketing and product launch costs. The Company believes that it would be able to raise sufficient capital to fund the product launch and operations into 2009. However, if the Company cannot obtain additional financing, management has the ability and intent to implement a reduced spending plan to fund operations at least through the first quarter of 2009. In budgeting for our activities, we have relied on a number of assumptions, including assumptions that we will continue to expend funds in preparation of a commercial launch of Fiapta™, that we will conduct our Phase III trial of VEC-162 for the treatment of chronic primary insomnia in accordance with our expectations, that we will not engage in further in-licensing activities, that we will not receive any proceeds from potential partnerships, that we will not expend funds on the bipolar indication for Fiapta™, that we will not conduct additional trials for the injectable formulation for Fiapta™, that we will not conduct additional trials for VSF-173, that we will continue to evaluate clinical and pre-clinical compounds for potential development, that we will be able to continue the manufacturing of our product candidates at commercially reasonable prices, that we will be able to retain our key personnel, and that we will not incur any significant contingent liabilities. We may need to raise additional funds more quickly if one or more of our assumptions proves to be incorrect, if we choose to expand our product development efforts more rapidly than presently anticipated, or if we seek to acquire additional product candidates. We may also decide to raise additional funds even before they are needed if the conditions for raising capital are favorable.

In our capital-raising efforts, we may seek to sell additional equity or debt securities or obtain a bank credit facility. The sale of additional equity or debt securities, if convertible, could result in dilution to our stockholders. The incurrence of indebtedness would result in increased fixed obligations and could also result in covenants that would restrict our operations.

We cannot assure you that additional capital will be available when we need it on terms that are acceptable to us, or at all. The unavailability of financing may require us to delay, scale back or eliminate expenditures for our research, development and marketing activities necessary to commercialize our potential biopharmaceutical products. If we are unable to secure sufficient capital to fund our research and development activities, we may not be able to continue operations or we may have to enter into collaboration agreements that could require us to share commercial rights to our products to a greater extent or at earlier stages in the drug development process than we currently intend. Collaborations that are consummated by us prior to proof-of-efficacy and safety of a product candidate could impair our ability to realize value from that product candidate. In the absence of our ability to raise additional capital resources, we are prepared and have the ability to curtail the existing operating needs and commitments to have the operating funds through the first quarter of 2009.

*Fiapta™.* Fiapta™ is our product candidate under development to treat schizophrenia and bipolar disorder. We submitted an NDA for Fiapta™ for the treatment of schizophrenia to the FDA on September 27, 2007 and on November 27, 2007 the FDA accepted our NDA. We continue to work closely with the FDA throughout their review process and anticipate a decision on our NDA on its PDUFA action date of or about July 27, 2008, although the FDA may not meet, or may extend, the PDUFA action date. The application includes data from 35 clinical trials and more than 3,000 patients treated with Fiapta™ and also contains pharmacogenetic data aimed to further improve the benefit/risk profile of Fiapta™ in the treatment of patients with schizophrenia.

From inception to December 31, 2007 we incurred approximately \$66.0 million in research and development costs directly attributable to our development of Fiapta™, including a \$5.0 million milestone license fee paid to Novartis in 2007 upon the acceptance of our NDA.

We expect to increase our pre-launch commercial activities relating to Fiapta™, and we expect to start marketing Fiapta™ commercially in early 2009. However, the time it takes to receive cash inflows from the sale of Fiapta™ is highly dependent on facts and circumstances that we may not be able to control and are subject to a number of risks. For example, delays in the approval process and subsequent commercial launch

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of Fiapta™ following our filing may occur if the FDA fails to attend to our filing in a timely manner or requires further data to approve Fiapta™. Please see Item 1A “Risk Factors” of this annual report on Form 10-K for a more detailed discussion of these and other risks.

We are also developing a 4-week injectable formulation for Fiapta™, for which we already have early Phase II data from a study previously conducted by Novartis. We have completed essential manufacturing activities and intend to conduct additional clinical trials following FDA approval of the oral dose formulation for Fiapta™.

*VEC-162.* VEC-162 is our product candidate under development to treat sleep and mood disorders. VEC-162 is a melatonin receptor agonist that works by adjusting the human “body clock” of circadian rhythm. VEC-162 has successfully completed a Phase III trial for the treatment of transient insomnia in November 2006. In November 2007 we initiated and in February 2008 completed an enrollment in a Phase III trial of VEC-162 to evaluate the safety and efficacy of VEC-162 in chronic primary insomnia. The trial is a randomized, double-blind, and placebo-controlled study with 324 patients. The trial measures time to fall asleep and sleep maintenance, as well as next-day performance. We expect to complete the study and to report its top-line results in June 2008. We will have to conduct additional trials prior to our filing of an NDA for VEC-162 to treat sleep disorders. VEC-162 is also ready for Phase II trials for the treatment of depression.

From inception to December 31, 2007, we incurred approximately \$40.0 million in direct research and development costs directly attributable to our development of VEC-162, including a \$1.0 million milestone license fee paid to BMS in 2006 upon the initiation of our Phase III program.

*VSF-173.* VSF-173 is an oral compound that has demonstrated effects on animal sleep/wake patterns and gene expression suggestive of a stimulant effect. In a recently completed Phase II trial of VSF-173 in excessive sleepiness, the compound demonstrated improvement compared to placebo on the Maintenance of Wakefulness Test (MWT), though not statistically significant, and dose-dependent, statistically significant improvements versus placebo on a number of secondary endpoints taken in the recovery sleep period after dosing, including number of awakenings, and sleep efficiency and wake after sleep onset in the first third of the recovery sleep period. VSF-173 was also demonstrated to be safe and well-tolerated. We will have to conduct additional Phase II trials of VSF-173 in order to further its development.

Excessive sleepiness is a common symptom that can significantly impair a person’s ability to function. The effects of excessive sleepiness range from mild sleepiness to unrecognized episodes of “microsleeps” and uncontrollable sleep attacks. Excessive sleepiness is a symptom of many disorders, including obstructive sleep apnea, narcolepsy, shift worker sleep disorder, Parkinson’s disease and Alzheimer’s disease.

From inception to December 31, 2007, we incurred approximately \$6.0 million in direct research and development costs directly attributable to our development of VSF-173, including a milestone license fee of \$1.0 million paid to Novartis upon the initiation of our first Phase II clinical trial in March of 2007.

*Revenues.* We generated some revenue during the period from March 13, 2003 (inception) to December 31, 2003 and during the year ended December 31, 2004 under research and development contracts that were derived principally from consulting agreements we entered into during our start-up phase to defray research costs. We completed our obligations during those periods under these agreements and no longer seek such arrangements.

We have not generated any other operating revenue since our inception. Any revenue that we may receive in the near future is expected to consist primarily of license fees, milestone payments and research and development reimbursement payments to be received from potential partners. If our development efforts result in clinical success, regulatory approval and successful commercialization of our products, we could generate revenue from sales of our products and from receipt of royalties on sales of licensed products.

*Research and development expenses.* The Company’s research and development expenses consist primarily of fees paid to third-party professional service providers in connection with the services they provide for our clinical trials, costs of contract manufacturing services, costs of materials used in clinical trials and research and development, depreciation of capital resources used to develop our products, all related facilities costs, and salaries, benefits and stock-based compensation expenses related to our research and development

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personnel. We expense research and development costs as incurred, including payments made to date under our license agreements. We believe that significant investment in product development is a competitive necessity and plan to continue these investments in order to realize the potential of our product candidates and pharmacogenetics and pharmacogenomics expertise. From inception through December 31, 2007 we incurred research and development expenses in the aggregate of approximately \$125.6 million, including stock-based compensation expenses of approximately \$5.8 million. We expect our research and development expenses to increase as we continue to develop our product candidates. We also expect to incur licensing costs in the future that could be substantial, as we continue our efforts to develop our product candidates and to evaluate potential in-license product candidates.

The following table summarizes our product development initiatives for the period from March 13, 2003 (inception) to December 31, 2003 and for the years ended December 31, 2004 to December 31, 2007 and for the period from March 13, 2003 (inception) to December 31, 2007. Included in the following table are the research and development expenses recognized in connection with our product candidates in clinical development. Included in "Other product candidates" are the costs directly related to research initiatives for all other product candidates.

	March 13, 2003 (Inception) to December 31, 2003(2)	Year Ended December 31, 2004	Year Ended December 31, 2005	Year Ended December 31, 2006	Year Ended December 31, 2007	Period from March 13, 2003 (Inception) to December 31, 2007
<b>Direct project costs(1)</b>						
Fiapta™ (iloperidone)	—	\$ 1,123,000	\$ 7,798,000	\$36,455,000	\$20,668,000	\$ 66,044,000
VEC-162	—	3,221,000	6,133,000	11,665,000	18,947,000	39,966,000
VSF-173	—	568,000	943,000	1,058,000	3,404,000	5,973,000
Other product candidates	—	1,037,000	899,000	1,098,000	2,095,000	5,129,000
Total direct product costs	\$ —	5,949,000	15,773,000	50,276,000	45,114,000	117,112,000
<b>Indirect project costs(1)</b>						
Facility(3)	—	259,000	247,000	578,000	495,000	1,579,000
Depreciation	69,000	345,000	375,000	474,000	423,000	1,686,000
Other indirect overhead costs	1,941,000	890,000	496,000	743,000	1,203,000	5,273,000
Total indirect expenses	2,010,000	1,494,000	1,118,000	1,795,000	2,121,000	8,538,000
Total research and development expenses	\$ 2,010,000	\$ 7,443,000	\$16,891,000	\$ 52,071,000	\$47,235,000	\$ 125,650,000

- (1) Many of our research and development costs are not attributable to any individual project because we share resources across several development projects. We record direct costs, including personnel costs and related benefits and stock-based compensation, on a project-by-project basis. We record indirect costs that support a number of our research and development activities in the aggregate.
- (2) In 2003, there were no active development programs in process for our product candidates listed in the table.
- (3) In 2003, all facility-related costs were allocated to general and administrative expenses.

*General and administrative expenses.* General and administrative expenses consist primarily of salaries and other related costs for personnel, including stock-based compensation, serving executive, finance, accounting, information technology, marketing and human resource functions. Other costs include facility costs not otherwise included in research and development expenses and fees for legal, accounting and other professional services. We expect that our general and administrative expenses will continue to increase as we support our discovery and research development efforts, for our commercial development activities and fulfill our reporting and other regulatory obligations applicable to public companies. From inception through

December 31, 2007, we incurred general and administrative expenses in the aggregate of approximately \$57.0 million, including stock-based compensation expenses of approximately \$25.0 million.

*Beneficial conversion feature.* In September 2005 we completed the sale of an additional 15,040,654 shares of Series B preferred stock for proceeds of approximately \$18.5 million. After evaluating the fair value of our common stock obtainable upon conversion by the stockholders, we determined that the issuance of the Series B preferred stock sold in September 2005 resulted in a beneficial conversion feature calculated in accordance with EITF Issue No. 98-5, *Accounting for Convertible Securities with Beneficial Conversion Features or Contingently Adjustable Conversion Ratios*, as interpreted by EITF Issue No. 00-27, *Application of Issue No. 98-5 to Certain Convertible Instruments*, of approximately \$18.5 million which was fully accreted in September 2005 and is recorded as a deemed dividend to preferred stockholders for the year ended December 31, 2005. Likewise, in December 2005, we completed the sale of an additional 12,195,129 shares of Series B preferred stock for additional proceeds of approximately \$15.0 million. After evaluating the fair value of our common stock obtainable upon conversion by the stockholders, we determined that the issuance of the Series B preferred stock sold in December 2005 resulted in a beneficial conversion feature calculated in accordance with EITF Issue No. 98-5, as interpreted by EITF Issue No. 00-27, approximately \$15.0 million of which was fully accreted in December 2005 and is recorded as a deemed dividend to preferred stockholders for the year ended December 31, 2005.

*Interest and other income, net.* Interest income consists of interest earned on our cash and cash equivalents, marketable securities and restricted cash. Interest expense consists of interest incurred on equipment debt.

### **Critical accounting policies**

The preparation of our consolidated financial statements requires us 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 our financial statements, as well as the reported revenues and expenses during the reported periods. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Our significant accounting policies are described in the notes to our audited consolidated financial statements for the year ended December 31, 2007 included in this annual report on Form 10-K. However, we believe that the following accounting policies are important to understanding and evaluating our reported financial results, and we have accordingly included them in this discussion.

*Accrued expenses.* As part of the process of preparing financial statements we are required to estimate accrued expenses. The estimation of accrued expenses involves identifying services that have been performed on our behalf, and then estimating the level of service performed and the associated cost incurred for such services as of each balance sheet date in the financial statements. Accrued expenses include professional service fees, such as lawyers and accountants, contract service fees, such as those under contracts with clinical monitors, data management organizations and investigators in conjunction with clinical trials, fees to contract manufacturers in conjunction with the production of clinical materials, and fees for marketing and other commercialization activities. Pursuant to our assessment of the services that have been performed on clinical trials and other contracts, we recognize these expenses as the services are provided. Our assessments include, but are not limited to: (1) an evaluation by the project manager of the work that has been completed during the period, (2) measurement of progress prepared internally and/or provided by the third-party service provider, (3) analyses of data that justify the progress, and (4) management's judgment. In the event that we do not identify certain costs that have begun to be incurred or we under- or over-estimate the level of services performed or the costs of such services, our reported expenses for such period would be too low or too high.

*Stock-based compensation.* We adopted Statement of Financial Accounting Standards No. 123(R), *Share Based Payment*, (SFAS 123(R)) on January 1, 2006 using the modified prospective transition method of implementation and adopted the accelerated attribution method. Prior to January 1, 2006 we followed APB

Opinion No. 25, *Accounting for Stock Issued to Employees* (APB 25), and related interpretations, in accounting for our stock-based compensation plans, rather than the alternative fair value accounting method provided for under SFAS No. 123, *Accounting for Stock-Based Compensation*.

We currently use the Black-Scholes-Merton option pricing model to determine the fair value of stock options. The determination of the fair value of stock options on the date of grant using an option pricing model is affected by our stock price as well as assumptions regarding a number of complex and subjective variables. These variables include the expected stock price volatility over the expected term of the awards, actual and projected employee stock option exercise behaviors, risk-free interest rate and expected dividends. Expected volatility rates are based on historical volatility of the common stock of comparable entities and other factors due to the lack of historic information of the Company's publicly traded common stock. The expected term of options granted is based on the transition approach provided by Staff Accounting Bulletin ("SAB") No. 107 as the options meet the "plain vanilla" criteria required by this method. The risk-free interest rates are based on the U.S. Treasury yield for a period consistent with the expected term of the option in effect at the time of the grant. We have not paid dividends to our stockholders since the inception and do not plan to pay dividends in the foreseeable future. The stock-based compensation expense for a period is also affected by expected forfeiture rate for the respective option grants. If our estimates of the fair value of these equity instruments or expected forfeitures are too high or too low, it would have the effect of overstating or understating expenses.

Total stock-based compensation expense, related to all of the Company's stock-based awards, recognized under SFAS 123(R) for the years ended December 31, 2007 and 2006, under APB 25 for the year ended December 31, 2005, and recognized for the period from March 13, 2003 (inception) to December 31, 2007, was comprised of the following:

	Year Ended December 31,			Period from
	2005	2006	2007	March 13,
				2003 (Inception) to December 31,
	2005	2006	2007	2007
Research and development	\$ 789,000	\$ 742,000	\$ 4,259,000	\$ 5,792,000
General and administrative	4,313,000	5,350,000	15,228,000	24,968,000
Total stock-based compensation expense	<u>\$ 5,102,000</u>	<u>\$ 6,092,000</u>	<u>\$ 19,487,000</u>	<u>\$ 30,760,000</u>

#### Recent Accounting Pronouncements

In September 2006, the FASB issued FASB Statement No. 157, *Fair Value Measurements* (SFAS 157), which addresses how companies should measure fair value when they are required to use a fair value measure for recognition or disclosure purposes under generally accepted accounting principles. SFAS 157 outlines a common definition of fair value and the new standard intends to make the measurement of fair value more consistent and comparable and improve disclosures about those measures. We will need to adopt SFAS 157 for financial statements issued for fiscal years beginning after November 15, 2007. In February 2008, the FASB agreed to delay the effective date of SFAS 157 for all nonfinancial assets and nonfinancial liabilities, except those that are recognized or disclosed at fair value in the financial statements on a recurring basis, to fiscal years beginning after November 15, 2008. This pronouncement is not expected to have significant impact on our results of operations and financial condition.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities, Including an Amendment of FASB Statement No. 115* (SFAS 159). According to this standard the entities will now be permitted to measure many financial instruments and certain other assets and liabilities at fair value on an instrument-by-instrument basis (the fair value option). SFAS 159 is effective for fiscal years beginning after November 15, 2007. This pronouncement is not expected to have significant impact on our results of operations and financial condition.

In June 2007, the Emerging Issues Task Force issued EITF No. 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to Be Used in Future Research and Development Activities* (EITF 07-3), which provides guidance to research and development companies on how to account for the nonrefundable portion of an advance payment made for research and development activities. We will be required to adopt EITF 07-3 for the year beginning after December 15, 2007. This pronouncement is not expected to have significant impact on our results of operations and financial condition.

In December 2007, the FASB issued SFAS No. 141 (revised 2007) (SFAS 141R), *Business Combinations* and SFAS No. 160 (SFAS 160), *Noncontrolling Interests in Consolidated Financial Statements, an amendment of Accounting Research Bulletin No. 51*. SFAS 141R will change how business acquisitions are accounted for and will impact financial statements both on the acquisition date and in subsequent periods. SFAS 160 will change the accounting and reporting for minority interests, which will be recharacterized as noncontrolling interests and classified as a component of equity. SFAS 141R and SFAS 160 will be applied to acquisitions that close in years beginning after December 15, 2008. Early adoption is not permitted. These pronouncements are not expected to have significant impact on our results of operations and financial condition.

In December 2007, the FASB ratified EITF Issue 07-1, *Accounting for Collaborative Arrangements* (EITF 07-1). The consensus prohibits the equity method of accounting for collaborative arrangements under APB 18, *The Equity Method of Accounting for Investments in Common Stock*, unless a legal entity exists. Payments between the collaborative partners will be evaluated and reported in the income statement based on applicable GAAP. Absent specific GAAP, the participants to the arrangement will apply other existing GAAP by analogy or apply a reasonable and rational accounting policy consistently. The guidance in EITF 07-1 is effective for periods that begin after December 15, 2008 and will apply to arrangements in existence as of the effective date. The effect of the new consensus will be accounted for as a change in accounting principle through retrospective application. We are currently evaluating the impact of EITF 07-1 on our results of operations and financial condition.

### **Results of operations**

We have a limited history of operations. We anticipate that our results of operations will fluctuate for the foreseeable future due to several factors, including any possible payments made or received pursuant to licensing or collaboration agreements, progress of our research and development efforts, and the timing and outcome of clinical trials and related possible regulatory approvals. Our limited operating history makes predictions of future operations difficult or impossible. Since our inception, we have incurred significant losses. As of December 31, 2007, we had a deficit accumulated during the development stage of approximately \$173.9 million. We anticipate incurring additional losses for the foreseeable future, and these losses may be incurred at increasing rates.

### ***Year ended December 31, 2007 compared to year ended December 31, 2006***

*Research and development expenses.* Research and development expenses decreased by approximately \$4.8 million, or 9%, to approximately \$47.2 million for the year ended December 31, 2007 compared to approximately \$52.1 million for the year ended December 31, 2006.

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The following table discloses the components of research and development expenses reflecting all of our project expenses for the years ended December 31, 2006 and 2007:

Research and Development Expenses	Year Ended December 31,	
	2006	2007
Direct project costs:		
Clinical trials	\$ 36,249,000	\$ 14,595,000
Contract research and development, consulting, materials and other direct costs	8,958,000	16,253,000
Milestone license fees	1,000,000	6,000,000
Salaries, benefits and related costs	3,327,000	4,007,000
Stock-based compensation	742,000	4,259,000
Total direct costs	50,276,000	45,114,000
Indirect project costs	1,795,000	2,121,000
Total	\$ 52,071,000	\$ 47,235,000

Direct costs decreased by approximately \$5.2 million primarily as a result of lower clinical trial expenses for the Company's Fiapta<sup>tm</sup> and VEC-162 Phase III trials that were primarily completed in 2006, offset by increase in clinical manufacturing activities for both Fiapta<sup>tm</sup> and VEC-162 and by increases in milestone license fees and stock-based compensation expense. Clinical trials expense decreased by approximately \$21.7 million primarily due to the costs incurred in 2006 in our Phase III trial of Fiapta<sup>tm</sup> in schizophrenia and in our Phase III trial of VEC-162 in transient insomnia that were completed primarily in 2006. The clinical trial costs incurred in 2007 relate primarily to our Phase II trial of VSF-173 in excessive sleepiness, to our Phase III trial of VEC-162 in chronic insomnia that we initiated during the fourth quarter of 2007, and to the completion of our Phase III trial of Fiapta<sup>tm</sup> in schizophrenia. Contract research and development, consulting, materials and other direct costs increased by approximately \$7.3 million primarily as a result of increased NDA related expenses and development costs incurred in connection with the manufacturing of clinical supply materials for our Fiapta<sup>tm</sup> and VEC-162 programs. Prior to FDA approval of our products, manufacturing related costs are included in research and development expense. Milestone license fees increased by \$5.0 million due to the milestone license fee payment to Novartis during 2007 upon the acceptance of our NDA filing for Fiapta<sup>tm</sup> during 2007. Salaries, benefits and related costs increased approximately \$680,000 for the year ended December 31, 2007 due to an increase in personnel to support the development and clinical trial activities for Fiapta<sup>tm</sup> and VEC-162. Stock-based compensation expense increased by approximately \$3.5 million as a result of the higher fair value of options granted during 2007 compared to options granted in prior periods.

*General and administrative expenses.* General and administrative expenses increased by approximately \$19.2 million, or 141%, to approximately \$32.8 million for the year ended December 31, 2007 from approximately \$13.6 million for the year ended December 31, 2006.

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The following table analyzes the components of our general and administrative expenses for the years ended December 31, 2006 and 2007:

General and Administrative Expenses	Year Ended December 31,	
	2006	2007
Salaries, benefits and related costs	\$ 2,609,000	\$ 3,263,000
Stock-based compensation	5,350,000	15,228,000
Marketing and related consulting services	1,187,000	8,047,000
Legal and other professional expenses	1,760,000	3,142,000
Other expenses	2,732,000	3,124,000
Total	<u>\$ 13,638,000</u>	<u>\$ 32,804,000</u>

Salaries, benefits and related costs increased by approximately \$654,000 for the year ended December 31, 2007 due to an increase in personnel as we continued to develop the administrative, market research, business development and other functions required to support the development and clinical trial activities for Fiapta<sup>™</sup>, VEC-162 and our other product candidates. Stock-based compensation expense increased by approximately \$9.9 million as a result of the higher fair value of options granted during 2007 compared to options granted in prior periods. Marketing and related consulting services increased by approximately \$6.9 million due to the increase in our market research and other pre-commercial launch activities. Legal and other professional expenses increased by approximately \$1.4 million due primarily to an increase in legal, accounting and other professional expenses associated with being a public company as well as due to a higher level of consulting activity in 2007 in support of business development activities. Other expenses increased approximately \$392,000 primarily due to increased insurance costs.

*Other income, net.* Net other income for the year ended December 31, 2007 was approximately \$6.0 million compared to approximately \$2.2 million for the year ended December 31, 2006. Interest income increased by approximately \$3.8 million due to higher average cash and marketable securities balances for the year and higher short-term interest rates which generated substantially higher interest income than in 2006.

The following table analyzes the components of our other income, net amounts:

	Year Ended December 31,	
	2006	2007
Interest income	\$ 2,203,000	\$ 5,907,000
Interest expense	(5,000)	—
Other income	—	71,000
Total, net	<u>\$ 2,198,000</u>	<u>\$ 5,978,000</u>

***Year ended December 31, 2006 compared to year ended December 31, 2005***

*Research and development expenses.* Research and development expenses increased by approximately \$35.2 million, or 208%, to approximately \$52.1 million for the year ended December 31, 2006 compared to approximately \$16.9 million for the year ended December 31, 2005.

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The following table discloses the components of research and development expenses reflecting all of our project expenses for the years ended December 31, 2005 and 2006:

Research and Development Expenses	Year Ended December 31,	
	2005	2006
Direct project costs:		
Clinical trials	\$ 6,275,000	\$ 36,249,000
Contract research and development, consulting, materials and other costs	6,747,000	8,958,000
Milestone license fees	—	1,000,000
Salaries, benefits and related costs	1,962,000	3,327,000
Stock-based compensation	789,000	742,000
Total direct costs	15,773,000	50,276,000
Indirect project costs	1,118,000	1,795,000
Total	\$ 16,891,000	\$ 52,071,000

Direct costs increased approximately \$34.5 million primarily as a result of clinical development activities for Fiapta™ and VEC-162. Clinical trials expense increased approximately \$30.0 million for the year ended December 31, 2006, mostly due to the cost incurred in our Phase III Fiapta™ and VEC-162 clinical trials that were conducted and completed primarily in 2006. Contract research and development, consulting, materials and other costs increased approximately \$2.2 million for the year ended December 31, 2006, primarily as a result of increased regulatory and manufacturing-related development costs incurred in connection with the manufacturing of clinical supply materials for the Fiapta™ and the VEC-162 clinical trial programs. Prior to FDA approval of our products, manufacturing-related costs are included in research and development expense. Milestone license fees in 2006 represent a \$1.0 million milestone payment under our license agreement for VEC-162 with Bristol-Myers Squibb Company. Salaries, benefits and related costs increased approximately \$1.4 million for the year ended December 31, 2006 due to an increase in personnel to support the development and clinical trial activities for Fiapta™ and VEC-162. The stock-based compensation expense decreased approximately \$47,000 primarily as the 2005 amounts reflect expenses incurred due to modifications of stock option awards made in 2005. Indirect project costs also increased by approximately \$677,000 for the year ended December 31, 2006 due primarily to the increase in the rent expense resulting from our move to the new facility.

*General and administrative expenses.* General and administrative expenses increased approximately \$6.2 million, or 84%, to approximately \$13.6 million for the year ended December 31, 2006 from approximately \$7.4 million for the year ended December 31, 2005.

The following table analyzes the components of our general and administrative expenses for the years ended December 31, 2005 and 2006:

General and Administrative Expenses	Year Ended December 31,	
	2005	2006
Salaries, benefits and related costs	\$ 1,411,000	\$ 2,609,000
Stock-based compensation	4,313,000	5,350,000
Marketing and related consulting services	279,000	1,187,000
Legal and other professional expenses	620,000	1,760,000
Other expenses	773,000	2,732,000
Total	\$ 7,396,000	\$ 13,638,000

Salaries, benefits and related costs increased approximately \$1.2 million for the year ended December 31, 2006 due to an increase in personnel as we continued to develop the administrative, business development and

other functions required to support the development and clinical trial activities for Fiapta<sup>tm</sup>, VEC-162 and our other product candidates. Stock-based compensation expense increased by approximately \$1.0 million as a result of the higher fair value of options granted during 2006 compared to options granted in prior periods. Marketing and related consulting services increased by approximately \$0.9 million due to the increase in our market research activities. Legal and other professional expenses increased by approximately \$1.1 million for the year ended December 31, 2006 due primarily to an increase in legal, accounting and other professional expenses associated with being a public company. Other expenses increased approximately \$2.0 million for the year ended December 31, 2006, due to an increase in facilities expenses of approximately \$473,000, which includes expenses relating to abandonment of our former office facilities of approximately \$232,000, an increase in insurance expenses of approximately \$700,000, primarily due to an increase in directors' and officers' and clinical trial insurance, and an increase in other general and administrative expenses.

*Interest income, net.* Net interest income in the year ended December 31, 2006 was approximately \$2.2 million compared to net interest income of approximately \$410,000 in the year ended December 31, 2005. Interest income was higher in 2006 due to higher average cash and marketable securities balances for the year and higher short-term interest rates which generated substantially higher interest income than it did in 2005.

Our interest income and expense for the years ended December 31, 2005 and 2006 are as follows:

	Year Ended December 31,	
	2005	2006
Interest income	\$ 436,000	\$ 2,203,000
Interest expense	(26,000)	(5,000)
Total, net	\$ 410,000	\$ 2,198,000

### Liquidity and capital resources

We have funded our operations through December 31, 2007 principally with the net proceeds from private preferred stock offerings totaling approximately \$62.0 million, with net proceeds from our April 2006 initial public offering of approximately \$53.3 and with net proceeds from our January 2007 follow-on offering of approximately \$111.3 million.

At December 31, 2007, our total cash and cash equivalents and marketable securities were approximately \$93.2 million, compared to approximately \$31.9 million at December 31, 2006. Our cash and cash equivalents are deposits in operating accounts and highly liquid investments with an original maturity of 90 days or less at date of purchase and consist of time deposits, investments in money market funds with commercial banks and financial institutions, and commercial paper of high-quality corporate issuers.

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As of December 31, 2006 and 2007 our liquidity resources are summarized as follows:

	As of December 31,	
	2006	2007
<b>Balance sheet data</b>		
Cash and cash equivalents	\$ 30,929,000	\$ 41,930,000
U.S. Treasury and government agencies	—	3,980,000
U.S. corporate debt	942,000	33,339,000
U.S. asset-backed securities	—	5,925,000
Marketable securities, short-term	942,000	43,244,000
U.S. Treasury and government agencies	—	2,002,000
U.S. corporate debt	—	1,970,000
U.S. asset-backed securities	—	4,007,000
Marketable securities, long-term	—	7,979,000
	\$ 31,871,000	\$ 93,153,000

As of December 31, 2007, we maintained all of our cash, cash equivalents and marketable securities in three financial institutions. Deposits held with these institutions may exceed the amount of insurance provided on such deposits, but we do not anticipate any losses with respect to such deposits.

Our activities will necessitate significant uses of working capital throughout 2008 and beyond. Based on our current operating plans, we believe that our existing cash, cash equivalents and marketable securities will be sufficient to meet our anticipated operating needs into the fourth quarter of 2008. If Fiapta<sup>™</sup> is approved by the FDA on the expected PDUFA action date of or about July 27, 2008, the Company intends to pursue additional financing, in part to fund additional marketing and product launch costs. The Company believes that it would be able to raise sufficient capital to fund the product launch and operations into 2009. However, if the Company cannot obtain additional financing, management has the ability and intent to implement a reduced spending plan to fund operations at least through the first quarter of 2009. In budgeting for our activities, we have relied on a number of assumptions, including assumptions that we will continue to expend funds in preparation of a commercial launch of Fiapta<sup>™</sup>, that we will conduct our VEC-162 Phase III trial in chronic primary insomnia in accordance with our expectations, that we will not engage in further in-licensing activities, that we will not receive any proceeds from potential partnerships, that we will not expend funds on the bipolar indication for Fiapta<sup>™</sup>, that we will not conduct additional trials for the injectable formulation for Fiapta<sup>™</sup>, that we will not conduct additional trials for VSF-173, that we will continue to evaluate clinical and pre-clinical compounds for potential development, that we will be able to continue the manufacturing of our product candidates at commercially reasonable prices, that we will be able to retain our key personnel, and that we will not incur any significant contingent liabilities. We may need to raise additional funds more quickly if one or more of our assumptions proves to be incorrect or if we choose to expand our product development efforts more rapidly than presently anticipated or seek to acquire additional product candidates, and we may also decide to raise additional funds even before they are needed if the conditions for raising capital are favorable.

We may seek to sell additional equity or debt securities or obtain a bank credit facility. The sale of additional equity or debt securities, if convertible, could result in dilution to our stockholders. The incurrence of indebtedness would result in increased fixed obligations and could also result in covenants that would restrict our operations.

We cannot assure you that additional funds will be available when we need them on terms that are acceptable to us, or at all. The unavailability of financing may require us to delay, scale back or eliminate expenditures for our research, development and marketing activities necessary to commercialize our potential biopharmaceutical products. If we are unable to secure sufficient capital to fund our research and development activities, we may not be able to continue operations or we may have to enter into collaboration agreements that could require us to share commercial rights to our products to a greater extent or at earlier stages in the drug development process than we currently intend. Collaborations that are consummated by us prior to proof-of-efficacy and safety of a product

candidate could impair our ability to realize value from that product candidate. In the absence of our ability to raise additional capital resources, we are also prepared and have the ability to curtail our existing operating needs and commitments to have the operating funds through the first quarter of 2009.

**Cash flow**

The following table summarizes our cash flows for the years ended December 31, 2005, 2006 and 2007.

	Year Ended December 31,		
	2005	2006	2007
Net cash (used in) provided by			
Operating activities	\$ (17,714,000)	\$ (51,620,000)	\$ (51,641,000)
Investing activities	(10,818,000)	8,221,000	(48,760,000)
Financing activities	33,294,000	53,315,000	111,403,000
Effect of foreign currency translation	(9,000)	—	(1,000)
Net increase in cash and cash equivalents	<u>\$ 4,753,000</u>	<u>\$ 9,916,000</u>	<u>\$ 11,001,000</u>

***Year ended December 31, 2007 compared to year ended December 31, 2006***

Net cash used in operations was approximately \$51.6 million for both of the years ended December 31, 2006 and 2007. The net loss for the year ended December 31, 2007 of approximately \$74.1 million was offset primarily by non-cash charges for depreciation and amortization of approximately \$572,000, stock-based compensation of approximately \$19.6 million, and an increase in accrued expenses and accounts payable of approximately \$3.7 million, principally related to clinical trial expenses and expenses incurred in preparation of the commercial launch of Fiapta™, and other net changes in working capital. Net cash used in investing activities for the year ended December 31, 2007 was approximately \$48.8 million and consisted primarily of net purchases of marketable securities of approximately \$48.7 million. Net cash provided by financing activities for the year ended December 31, 2007 was approximately \$111.4 million, consisting primarily of net proceeds from our January 2007 follow-on offering of approximately \$111.3 million.

***Year ended December 31, 2006 compared to year ended December 31, 2005***

Net cash used in operations was approximately \$51.6 million and approximately \$17.7 million for the years ended December 31, 2006 and 2005, respectively. The net loss for the year ended December 31, 2006 of approximately \$63.5 million was offset primarily by non-cash charges for depreciation and amortization of approximately \$575,000, non-cash stock-based compensation of approximately \$6.1 million, an increase in accrued expenses of approximately \$3.8 million, principally related to clinical trial expenses, and other net changes in working capital. Net cash provided by investing activities for the year ended December 31, 2006 was approximately \$8.2 million and consisted primarily of net proceeds from sales and maturities of marketable securities of approximately \$9.6 million and purchases of property and equipment of approximately \$1.4 million. Net cash provided by financing activities for the year ended December 31, 2006 was approximately \$53.3 million, consisting primarily of net proceeds from the initial public offering of our common stock of \$53.3 million.

**Contractual obligations and commitments**

The following table summarizes our long-term contractual cash obligations as of December 31, 2007:

	Cash Payments Due by Period						
	Total	2008	2009	2010	2011	2012	After 2012
Operating leases	<u>\$6,335,000</u>	<u>\$662,000</u>	<u>\$685,000</u>	<u>\$706,000</u>	<u>\$727,000</u>	<u>\$749,000</u>	<u>\$2,806,000</u>

*Operating leases.* Our commitments under operating leases shown above consist of payments relating to our real estate leases for our current and former headquarters located in Rockville, Maryland, expiring in 2016 and 2008, respectively.

*Clinical research organization contracts and other contracts.* We have entered into agreements with clinical research organizations responsible for conducting and monitoring our clinical trials for Fiapta™ and VEC-162, and have also entered into agreements with clinical supply manufacturing organizations and other outside contractors who will be responsible for additional services supporting our ongoing clinical development processes. These contractual obligations are not reflected in the table above because we may terminate them on no more than 60 days notice without incurring additional charges (other than charges for work completed but not paid for through the effective date of termination and other costs incurred by our contractors in closing out work in progress as of the effective date of termination).

*License agreements.* In February 2004 and June 2004, we entered into separate licensing agreements with BMS and Novartis, respectively, for the exclusive rights to develop and commercialize our three compounds in clinical development. We are obligated to make payments under the conditions in the agreements upon the achievement of specified clinical, regulatory and commercial milestones. If the products are successfully commercialized we will be required to pay certain royalties based on net sales for each of the licensed products. Please see the notes to the consolidated financial statements included with this report for a more detailed description of these license agreements.

As a result of the successful commencement of the Phase III clinical study of VEC-162 in March 2006, we met the first milestone specified in our licensing agreement with BMS and subsequently paid a license fee of \$1,000,000. During March 2007, we met our first milestone under the license agreement with Novartis for VSF-173 relating to the initiation of the Phase II clinical trial and subsequently paid a license fee of \$1,000,000. As a result of the acceptance by FDA of our NDA for Fiapta™ in October 2007, we met a milestone under our license agreement with Novartis and subsequently paid a \$5,000,000 milestone license fee. No amounts were recorded as liabilities relating to the license agreements included in the consolidated financial statements as of December 31, 2007, since the amounts, timing and likelihood of these payments are unknown and will depend on the successful outcome of future clinical trials, regulatory filings, favorable FDA regulatory approvals, growth in product sales and other factors. For a more detailed description of the risks associated with the outcome of such clinical trials, regulatory filings, FDA approvals and product sales, please see the section “Risk Factors” of this annual report on Form 10-K.

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

### **Foreign exchange**

We currently incur a portion of our operating expenses in currencies other than U.S. Dollars, the reporting currency for our consolidated financial statements, and we have determined that such operating expenses have not been significant to date. As a result, we have not been impacted materially by changes in exchange rates and do not expect to be impacted materially for the foreseeable future. However, if operating expenses incurred outside of the United States increase, our results of operations could be adversely impacted by changes in exchange rates. We do not currently hedge foreign currency fluctuations and do not intend to do so for the foreseeable future.

### **Interest rates**

Our exposure to market risk is currently confined to our cash and cash equivalents, marketable securities and restricted cash. We currently do not hedge interest rate exposure. We have not used derivative financial instruments for speculation or trading purposes. Because of the short-term maturities of our cash and cash equivalents and marketable securities, we do not believe that an increase in market rates would have any significant impact on the realized value of our investments.

**Effects of inflation**

Our most liquid assets are cash and cash equivalents and marketable securities. Because of their liquidity, these assets are not directly affected by inflation. We also believe that we have intangible assets in the value of our intellectual property. In accordance with generally accepted accounting principles, we have not capitalized the value of this intellectual property on our balance sheet. Due to the nature of this intellectual property, we believe that these intangible assets are not affected by inflation. Because we intend to retain and continue to use our equipment, furniture and fixtures and leasehold improvements, we believe that the incremental inflation related to replacement costs of such items will not materially affect our operations. However, the rate of inflation affects our expenses, such as those for employee compensation and contract services, which could increase our level of expenses and the rate at which we use our resources.

**Marketable securities**

We deposit our cash with financial institutions that we consider to be of high credit quality and purchase marketable securities which are generally investment grade, liquid, short-term fixed income securities and money-market instruments denominated in U.S. dollars.

**Off-balance sheet arrangements**

We have no off-balance sheet arrangements, as defined in Item 303(a)(4) of the Securities and Exchange Commission's Regulation S-K.

**ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

The consolidated financial statements and related financial statement schedules required to be filed are indexed on page 55 and are incorporated herein.

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

None.

**ITEM 9A. CONTROLS AND PROCEDURES**

**Conclusion Regarding the Effectiveness of Disclosure Controls and Procedures**

Under the supervision and with the participation of the Company's management, including the Chief Executive Officer and Chief Financial Officer, the Company evaluated the effectiveness of the design and operation of the Company's disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of December 31, 2007. Based upon that evaluation, the Company's Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures were effective as of December 31, 2007, the end of the period covered by this annual report, to ensure that the information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosures.

**Management's Report on Internal Control Over Financial Reporting**

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

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the Company's management concluded that the Company's internal control over financial reporting was effective as of December 31, 2007.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2007 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears on page 56 of this Form 10-K.

**Changes in Internal Control over Financial Reporting**

There has been no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act) during the fourth quarter of 2007 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

**ITEM 9B. OTHER INFORMATION**

None.

**PART III**

**ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**

Information required under this item will be contained in the Company's Proxy Statement for the Annual Meeting of Stockholders to be held May 8, 2008, under the captions "Election of Directors," "Executive Officers," "Corporate Governance", and "Section 16(a) Beneficial Ownership Reporting Compliance" and is incorporated herein by reference pursuant to General Instruction G(3) to Form 10-K.

**ITEM 11. EXECUTIVE COMPENSATION**

Information required under this item will be contained in the Company's Proxy Statement for the Annual Meeting of Stockholders to be held May 8, 2008, under the captions "Corporate Governance" and "Executive Compensation," and is incorporated herein by reference pursuant to General Instruction G(3) to Form 10-K, except that information required by Item 407(e)(5) of Regulation S-K will be deemed furnished in this Form 10-K and will not be deemed incorporated by reference into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934, except to the extent that we specifically incorporate it by reference into such filing.

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

In addition to the information set forth under the caption "Securities Authorized for Issuance Under Equity Compensation Plans" in Part II of this annual report on Form 10-K, information required under this item will be contained in the Company's Proxy Statement for the Annual Meeting of Stockholders to be held May 8, 2008, under the caption "Security Ownership by Certain Beneficial Owners and Management" and is incorporated herein by reference pursuant to General Instruction G(3) to Form 10-K.

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

Information required under this item will be contained in the Company's Proxy Statement for the Annual Meeting of Stockholders to be held May 8, 2008, under the caption "Corporate Governance" and is incorporated herein by reference pursuant to General Instruction G(3) to Form 10-K.

**ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES**

Information required under this item will be contained in the Company's Proxy Statement for the Annual Meeting of Stockholders to be held May 8, 2008, under the caption "Ratification of Selection of Independent

Registered Public Accounting Firm” and is incorporated herein by reference pursuant to General Instruction G(3) to Form 10-K.

**PART IV**

**ITEM 15. EXHIBITS AND FINANCIAL STATEMENTS SCHEDULES**

The consolidated financial statements filed as part of this annual report on Form 10-K are listed and indexed at page 55. Certain schedules are omitted because they are not applicable, or not required, or because the required information is included in the consolidated financial statements or notes thereto.

The Exhibits listed in the Exhibit Index immediately preceding the Exhibits are filed as part of this annual report on Form 10-K.

**Signatures**

Pursuant to the requirements of Section 13 and 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this annual report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized, in Rockville, Maryland, on March 13, 2008.

VANDA PHARMACEUTICALS INC.

By: /s/ MIHAEL H. POLYMERPOULOS, M.D.  
Mihael H. Polymeropoulos, M.D.  
*Chief Executive Officer*

Pursuant to the requirements of the Securities Act of 1934, this annual report on Form 10-K has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Name</u>		<u>Date</u>
<u>/s/ MIHAEL H. POLYMERPOULOS, M.D.</u> Mihael H. Polymeropoulos, M.D.	President and Chief Executive Officer and Director (principal executive officer)	March 13, 2008
<u>/s/ STEVEN A. SHALLCROSS</u> Steven A. Shallcross	Senior Vice President, Chief Financial Officer and Treasurer (principal financial and accounting officer)	March 13, 2008
<u>/s/ ARGERIS N. KARABELAS, Ph.D.</u> Argeris N. Karabelas, Ph.D.	Chairman of the Board and Director	March 13, 2008
<u>/s/ RICHARD W. DUGAN</u> Richard W. Dugan	Director	March 13, 2008
<u>/s/ BRIAN K. HALAK, Ph.D.</u> Brian K. Halak, Ph.D.	Director	March 13, 2008
<u>/s/ HOWARD PIEN</u> Howard Pien	Director	March 13, 2008
<u>/s/ DAVID RAMSAY</u> David Ramsay	Director	March 13, 2008
<u>/s/ H. THOMAS WATKINS</u> H. Thomas Watkins	Director	March 13, 2008

**Vanda Pharmaceuticals Inc.**  
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**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholders  
of Vanda Pharmaceuticals Inc. (a development stage enterprise)

In our opinion, the accompanying consolidated balance sheets and the related consolidated statements of operations, changes in stockholders' equity, and cash flows present fairly, in all material respects, the financial position of Vanda Pharmaceuticals Inc. and its subsidiary (a development stage enterprise) at December 31, 2007 and 2006, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2007 and, cumulatively for the period from March 13, 2003 (date of inception) to December 31, 2007, in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2007, based on criteria established in *Internal Control — Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Report on Internal Control Over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on these financial statements and on the Company's internal control over financial reporting based on our audits which was an integrated audit in 2007. 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 and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included 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, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As discussed in Note 2 to the consolidated financial statements, the Company changed the manner in which it accounts for stock-based compensation in 2006.

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

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

/s/ PricewaterhouseCoopers LLP

McLean, Virginia  
March 13, 2008

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Consolidated Balance Sheets**

	December 31,	
	2007	2006
<b>Assets</b>		
Current assets		
Cash and cash equivalents	\$ 41,929,533	\$ 30,928,895
Marketable securities	43,243,960	941,981
Prepaid expenses and other current assets	1,781,881	1,949,466
Total current assets	86,955,374	33,820,342
Marketable securities, long-term	7,979,331	—
Property and equipment, net	1,345,845	1,859,704
Deposits	150,000	150,000
Restricted cash	430,230	430,230
Total assets	\$ 96,860,780	\$ 36,260,276
<b>Liabilities and stockholders' equity</b>		
Current liabilities		
Accounts payable	\$ 2,988,069	\$ 2,783,249
Accrued liabilities	9,789,738	6,322,808
Total current liabilities	12,777,807	9,106,057
Deferred grant revenue	—	129,950
Deferred rent and other long-term liabilities	354,042	267,397
Total liabilities	13,131,849	9,503,404
Commitments		
Stockholders' equity		
Preferred stock, \$0.001 par value; 20,000,000 shares authorized and none issued and outstanding at December 31, 2007 and 2006	—	—
Common stock, \$0.001 par value; 150,000,000 shares authorized, 26,652,728 and 22,128,534 shares issued and outstanding at December 31, 2007 and 2006, respectively	26,653	22,129
Additional paid-in capital	257,600,368	126,578,588
Accumulated other comprehensive income (loss)	12,176	(3,269)
Deficit accumulated during the development stage	(173,910,266)	(99,840,576)
Total stockholders' equity	83,728,931	26,756,872
Total liabilities and stockholders' equity	\$ 96,860,780	\$ 36,260,276

The accompanying notes are an integral part of these consolidated financial statements.

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Consolidated Statements of Operations**

	Year Ended December 31,			Period from
	2007	2006	2005	March 13, 2003 (Inception) to December 31, 2007
Revenues from services	\$ —	\$ —	\$ —	\$ 81,545
Operating expenses:				
Research and development	47,234,867	52,070,776	16,890,615	125,649,773
General and administrative	32,803,508	13,637,664	7,396,038	57,009,263
Total operating expenses	<u>80,038,375</u>	<u>65,708,440</u>	<u>24,286,653</u>	<u>182,659,036</u>
Loss from operations	(80,038,375)	(65,708,440)	(24,286,653)	(182,577,491)
Other income (expense):				
Interest income	5,907,219	2,202,654	435,537	8,698,789
Interest expense	—	(4,833)	(25,629)	(80,485)
Other income, net	71,345	—	93	71,947
Total other income, net	<u>5,978,564</u>	<u>2,197,821</u>	<u>410,001</u>	<u>8,690,251</u>
Loss before tax provision	(74,059,811)	(63,510,619)	(23,876,652)	(173,887,240)
Tax provision	9,879	549	7,649	23,026
Net loss	(74,069,690)	(63,511,168)	(23,884,301)	(173,910,266)
Beneficial conversion feature — deemed dividend to preferred stockholders	—	—	(33,486,623)	(33,486,623)
Net loss attributable to common stockholders	<u>\$ (74,069,690)</u>	<u>\$ (63,511,168)</u>	<u>\$ (57,370,924)</u>	<u>\$ (207,396,889)</u>
Basic and diluted net loss per share attributable to common stockholders	<u>\$ (2.81)</u>	<u>\$ (3.97)</u>	<u>\$ (3,374.33)</u>	
Shares used in calculation of basic and diluted net loss per share attributable to common stockholders	<u>26,360,177</u>	<u>16,001,815</u>	<u>17,002</u>	

The accompanying notes are an integral part of these consolidated financial statements.

**Vanda Pharmaceuticals Inc.**  
(A development stage enterprise)

**Statements of Changes in Stockholders' Equity**

	Series A Preferred Stock		Series B Preferred Stock		Common Stock		Additional Paid-in Capital	Deferred Stock-Based Compensation	Accumulated Other Comprehensive Loss	Deficit Accumulated During the Development Stage	Comprehensive Loss	Total
	Shares	Par Value	Shares	Par Value	Shares	Par Value						
<b>Balances at March 13, 2003</b> <b>(Inception)</b>	—	\$ —	—	\$ —	—	\$ —	—	\$ —	—	\$ —	—	\$ —
ISSUANCE OF SERIES A PREFERRED STOCK, NET OF ISSUANCE COSTS OF \$36,459	10,000,000	9,963,541	—	—	—	—	—	—	—	—	—	9,963,541
ISSUANCE OF CLASS A COMMON STOCK	—	—	—	—	3,020	3	3,997	—	—	—	—	4,000
ISSUANCE OF WARRANTS	—	—	—	—	—	—	40,573	—	—	—	—	40,573
ISSUANCE OF SERIES B PREFERRED STOCK, NET OF ISSUANCE COSTS OF \$154,982	—	—	15,040,654	18,345,023	—	—	—	—	—	—	—	18,345,023
DEFERRED COMPENSATION ASSOCIATED WITH STOCK OPTIONS GRANTS	—	—	—	—	—	—	281,130	(281,130)	—	—	—	—
AMORTIZATION OF DEFERRED STOCK- BASED COMPENSATION	—	—	—	—	—	—	—	23,196	—	—	—	23,196
EXPENSE RELATED TO ACCELERATED UNVESTED STOCK OPTIONS	—	—	—	—	—	—	14,937	—	—	—	—	14,937
COMPREHENSIVE LOSS: NET LOSS	—	—	—	—	—	—	—	—	—	(12,445,107)	(12,445,107)	—
CUMULATIVE TRANSLATION ADJUSTMENT	—	—	—	—	—	—	—	—	(2,576)	—	(2,576)	—
COMPREHENSIVE LOSS	—	—	—	—	—	—	—	—	—	—	\$ (12,447,683)	(12,447,683)
<b>Balances at December 31, 2004</b>	10,000,000	\$ 9,963,541	15,040,654	\$ 18,345,023	3,020	\$ 3	\$ 340,637	\$ (257,934)	\$ (2,576)	\$ (12,445,107)	—	\$ 15,943,587

The accompanying notes are an integral part of these consolidated financial statements.

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Statements of Changes in Stockholders' Equity**

	Series A		Series B		Common stock		Additional Paid-in Capital	Deferred Stock-Based Compensation	Accumulated Other Comprehensive Loss	Deficit Accumulated During the Development Stage	Comprehensive Loss	Total
	Preferred Stock		Preferred Stock									
	Shares	Par Value	Shares	Par Value	Shares	Par Value						
<b>Balances at December 31, 2004</b>	10,000,000	\$9,963,541	15,040,654	\$18,345,023	3,020	\$ 3	\$ 340,637	\$ (257,934)	(2,576)	\$(12,445,107)	\$ —	\$ 15,943,587
ISSUANCE OF SERIES B PREFERRED STOCK NET OF ISSUANCE COSTS OF \$13,391	—	—	27,235,783	33,486,623	—	—	—	—	—	—	—	33,486,623
ISSUANCE OF COMMON STOCK FROM EXERCISED STOCK OPTIONS	—	—	—	—	95,925	96	31,658	—	—	—	—	31,754
DEFERRED COMPENSATION ASSOCIATED WITH STOCK OPTIONS GRANTS	—	—	—	—	—	—	18,788,385	(18,788,385)	—	—	—	—
DEFERRED COMPENSATION ASSOCIATED WITH REMEASUREMENT OF UNVESTED STOCK GRANTS	—	—	—	—	—	—	1,702,625	(1,702,625)	—	—	—	—
EXPENSE RELATED TO REMEASUREMENT OF STOCK OPTIONS	—	—	—	—	—	—	3,119,676	—	—	—	—	3,119,676
AMORTIZATION OF DEFERRED STOCK- BASED COMPENSATION	—	—	—	—	—	—	—	1,982,501	—	—	—	1,982,501
BENEFICIAL CONVERSION FEATURE — DEEMED DIVIDEND ON ISSUANCE OF SERIES B PREFERRED STOCK	—	—	—	—	—	—	33,486,623	—	—	—	—	33,486,623
BENEFICIAL CONVERSION FEATURE — ACCRETION OF BENEFICIAL CONVERSION FEATURE FOR SERIES B PREFERRED STOCK	—	—	—	—	—	—	(33,486,623)	—	—	—	—	(33,486,623)
COMPREHENSIVE LOSS:												
NET LOSS	—	—	—	—	—	—	—	—	—	(23,884,301)	(23,884,301)	—
CUMULATIVE TRANSLATION ADJUSTMENT	—	—	—	—	—	—	—	—	(17,711)	—	(17,711)	—
NET UNREALIZED GAINS ON MARKETABLE SECURITIES	—	—	—	—	—	—	—	—	2,678	—	2,678	—
COMPREHENSIVE LOSS											\$ (23,899,334)	(23,899,334)
<b>Balances at December 31, 2005</b>	10,000,000	\$9,963,541	42,276,437	\$51,831,646	98,945	\$ 99	\$23,982,981	\$(18,766,443)	(17,609)	\$(36,329,408)	—	\$ 30,664,807

The accompanying notes are an integral part of these consolidated financial statements.

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Statements of Changes in Stockholders' Equity**

	Series A Preferred Stock		Series B Preferred Stock		Common stock		Additional Paid-in Capital	Deferred Stock-Based Compensation	Accumulated Other Comprehensive Income (Loss)	Deficit Accumulated During the Development Stage	Comprehensive Loss	Total
	Shares	Par Value	Shares	Par Value	Shares	Par Value						
<b>Balances at December 31, 2005</b>	10,000,000	\$ 9,963,541	42,276,437	\$ 51,831,646	98,945	\$ 99	\$ 23,982,981	\$ (18,766,443)	\$ (17,609)	\$ (36,329,408)	\$ —	\$ 30,664,807
Elimination of deferred stock-based compensation costs	—	—	—	—	—	—	(18,766,443)	18,766,443	—	—	—	—
Initial public offering of common stock, net of issuance costs	—	—	—	—	5,964,188	5,964	53,323,987	—	—	—	—	53,329,951
Conversion of preferred stock upon initial public offering	(10,000,000)	(9,963,541)	(42,276,437)	(51,831,646)	15,794,632	15,795	61,779,392	—	—	—	—	—
Issuance of common stock from exercised stock options	—	—	—	—	222,233	223	78,301	—	—	—	—	78,524
Exercise of warrants	—	—	—	—	48,536	48	48,543	—	—	—	—	48,591
Employee stock-based compensation	—	—	—	—	—	—	6,092,339	—	—	—	—	6,092,339
Non-employee stock-based compensation	—	—	—	—	—	—	39,488	—	—	—	—	39,488
Comprehensive loss:												
Net loss	—	—	—	—	—	—	—	—	—	(63,511,168)	(63,511,168)	—
Cumulative translation adjustment	—	—	—	—	—	—	—	—	17,007	—	17,007	—
Net unrealized loss on marketable securities	—	—	—	—	—	—	—	—	(2,667)	—	(2,667)	—
Comprehensive loss	—	—	—	—	—	—	—	—	—	—	—	<u>\$ (63,496,828)</u>
<b>Balances at December 31, 2006</b>	—	—	—	—	22,128,534	22,129	126,578,588	—	(3,269)	(99,840,576)	—	26,756,872
Issuance of common stock from exercised stock options	—	—	—	—	154,194	154	148,486	—	—	—	—	148,640
Follow-on offering of common stock, net of issuance costs	—	—	—	—	4,370,000	4,370	111,250,480	—	—	—	—	111,254,850
Employee stock-based compensation	—	—	—	—	—	—	19,486,844	—	—	—	—	19,486,844
Non-employee stock-based compensation	—	—	—	—	—	—	135,970	—	—	—	—	135,970
Comprehensive loss:												
Net loss	—	—	—	—	—	—	—	—	—	(74,069,690)	(74,069,690)	—
Cumulative translation adjustment	—	—	—	—	—	—	—	—	(12,940)	—	(12,940)	—
Net unrealized gain on marketable securities	—	—	—	—	—	—	—	—	28,385	—	28,385	—
Comprehensive loss	—	—	—	—	—	—	—	—	—	—	—	<u>\$ (74,054,245)</u>
<b>Balances at December 31, 2007</b>	—	\$ —	—	\$ —	26,652,728	\$ 26,653	\$ 257,600,368	\$ —	\$ 12,176	\$ (173,910,266)	—	<u>\$ 83,728,931</u>

The accompanying notes are an integral part of these consolidated financial statements.

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**Consolidated Statements of Cash Flows**

	Year Ended December 31,			Period from March 13, 2003 (Inception) to December 31, 2007
	2007	2006	2005	
<b>Cash flows from operating activities</b>				
Net loss	\$ (74,069,690)	\$ (63,511,168)	\$ (23,884,301)	\$ (173,910,266)
Adjustments to reconcile net loss to net cash used in operating activities				
Depreciation and amortization	571,586	575,372	423,828	1,968,855
Stock-based compensation	19,622,814	6,131,827	5,102,177	30,935,523
Loss on disposal of assets	28,713	29,528	—	58,241
Accretion of discount on investments	(1,571,905)	(378,739)	(42,335)	(1,992,980)
Changes in assets and liabilities:				
Prepaid expenses and other current assets	168,987	270,745	(2,027,544)	(1,777,948)
Deposits	—	690,000	(790,000)	(150,000)
Accounts payable	204,029	526,711	1,514,868	2,988,016
Accrued expenses	3,465,028	3,811,373	1,860,539	9,782,861
Deferred grant revenue	(147,464)	—	129,950	—
Deferred rent and other liabilities	86,644	234,833	(1,356)	354,042
Net cash used in operating activities	<u>(51,641,258)</u>	<u>(51,619,518)</u>	<u>(17,714,174)</u>	<u>(131,743,656)</u>
<b>Cash flows from investing activities</b>				
Purchases of property and equipment	(279,433)	(1,354,156)	(291,978)	(3,438,200)
Proceeds from sale of property and equipment	200,179	—	—	200,179
Purchases of marketable securities	(138,953,879)	(102,232,608)	(11,846,176)	(253,032,662)
Proceeds from sale of marketable securities	3,577,859	82,137,888	—	85,715,747
Maturities of marketable securities	86,695,000	29,670,000	1,750,000	118,115,000
Investments in restricted cash	—	—	(430,230)	(430,230)
Net cash (used in) provided by investing activities	<u>(48,760,274)</u>	<u>8,221,124</u>	<u>(10,818,384)</u>	<u>(52,870,166)</u>
<b>Cash flows from financing activities</b>				
Proceeds from borrowings on note payable	—	—	—	515,147
Principal payments on obligations under capital lease	—	(1,540)	(51,569)	(91,796)
Principal payments on note payable	—	(141,074)	(172,617)	(515,147)
Proceeds from the issuance of preferred stock, net of issuance costs	—	—	33,486,623	61,795,187
Proceeds from exercise of stock options and warrants	148,640	127,115	31,754	307,509
Proceeds from issuance of common stock, net of issuance costs	111,254,850	53,329,951	—	164,588,801
Net cash provided by financing activities	<u>111,403,490</u>	<u>53,314,452</u>	<u>33,294,191</u>	<u>226,599,701</u>
Effect of foreign currency translation	(1,320)	22	(8,588)	(56,346)
Net increase in cash and cash equivalents	<u>11,000,638</u>	<u>9,916,080</u>	<u>4,753,045</u>	<u>41,929,533</u>
<b>Cash and cash equivalents</b>				
Beginning of period	30,928,895	21,012,815	16,259,770	—
End of period	<u>\$ 41,929,533</u>	<u>\$ 30,928,895</u>	<u>\$ 21,012,815</u>	<u>\$ 41,929,533</u>
<b>Supplemental disclosure</b>				
Cash payments for interest	\$ —	\$ 5,994	\$ 25,043	\$ 76,612
<b>Supplemental disclosure of non-cash financing activities</b>				
Equipment acquired through obligation under capital lease	\$ —	\$ —	\$ —	\$ 95,305

The accompanying notes are an integral part of these consolidated financial statements.

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Notes to the consolidated financial statements**

**1. Business organization and presentation**

***Business organization***

Vanda Pharmaceuticals Inc. (Vanda or the Company) is a biopharmaceutical company focused on the development and commercialization of small molecule therapeutics, with exclusive worldwide commercial rights to three product candidates in clinical development for various central nervous system disorders. The Company commenced its operations in 2003. The Company's lead product candidate, Fiapta™ (iloperidone), is a compound for the treatment of schizophrenia and bipolar disorder. On November 27, 2007 the United States Food and Drug Administration (FDA) accepted the New Drug Application (NDA) for Fiapta™ in schizophrenia. The second product candidate, VEC-162, is a compound for the treatment of sleep and mood disorders. In November 2006 Vanda announced positive top-line results from the Phase III trial of VEC-162 in transient insomnia. In November 2007 the Company initiated and in February 2008 completed an enrollment in a Phase III trial of VEC-162 in chronic primary insomnia. VEC-162 is also ready for Phase II trials for the treatment of depression. The third product candidate, VSF-173, is a compound for the treatment of excessive sleepiness in the Phase II program.

***Capital resources***

Since its inception, the Company has devoted substantially all of its efforts to business planning, research and development, market research, recruiting management and technical staff, acquiring operating assets and raising capital. Accordingly, the Company is considered to be in the development stage as defined in Statement of Financial Accounting Standards (SFAS) No. 7, *Accounting and Reporting by Development Stage Enterprises*.

The Company's activities will necessitate significant uses of working capital throughout 2008 and beyond. Additionally, the Company's capital requirements will depend on many factors, including the success of the Company's research and development efforts, payments received under contractual agreements with other parties, if any, and the status of competitive products. The Company plans to continue financing its operations with cash received from financing activities. Based on its current operating plans, the Company believes that its existing cash, cash equivalents and marketable securities will be sufficient to meet the Company's anticipated operating needs into the fourth quarter of 2008. If Fiapta™ is approved by the FDA on the expected PDUFA action date of or about July 27, 2008, the Company intends to pursue additional financing, in part to fund additional marketing and product launch costs. The Company believes that it would be able to raise sufficient capital to fund the product launch and operations into 2009. However, if the Company cannot obtain additional financing, management has the ability and intent to implement a reduced spending plan to fund operations at least through the first quarter of 2009. In budgeting for its activities, the Company has relied on a number of assumptions, including assumptions that the Company will continue to expend funds in preparation of a commercial launch of Fiapta™, that it will conduct its VEC-162 Phase III trial in chronic primary insomnia in accordance with the Company's expectations, that it will not engage in further in-licensing activities, that it will not receive any proceeds from potential partnerships, that it will not expend funds on the bipolar indication for Fiapta™, that it will not conduct additional trials for the injectable formulation for Fiapta™, that it will not conduct additional trials for VSF-173, that it will continue to evaluate clinical and pre-clinical compounds for potential development, that it will be able to continue the manufacturing of its product candidates at commercially reasonable prices, that it will be able to retain its key personnel, and that it will not incur any significant contingent liabilities. The Company may need to raise additional funds more quickly if one or more of its assumptions proves to be incorrect or if it chooses to expand its product development efforts more rapidly than presently anticipated or seek to acquire additional product candidates, and the Company may also decide to raise additional funds even before they are needed if the conditions for raising capital are favorable. However, the Company may not be able to raise additional funds

**Vanda Pharmaceuticals Inc.**  
**(A development stage enterprise)**

**Notes to the consolidated financial statements — (Continued)**

on acceptable terms, or at all. If the Company is unable to secure sufficient capital to fund its research and development activities, the Company may not be able to continue operations, or the Company may have to enter into collaboration agreements that could require the Company to share commercial rights to its products to a greater extent or at earlier stages in the drug development process than is currently intended. These collaborations, if consummated prior to proof-of-efficacy or safety of a given product candidate, could impair the Company's ability to realize value from that product candidate.

***Basis of presentation***

The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America. The consolidated financial statements include the accounts of the Company and its wholly-owned Singapore subsidiary that ceased operations during 2007. All inter-company balances and transactions have been eliminated.

**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 that affect the reported amounts of assets and liabilities at the date of the financial statements, disclosure of contingent assets and liabilities, and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

***Cash and cash equivalents***

For purposes of the consolidated balance sheets and consolidated statements of cash flows, cash equivalents represent highly-liquid investments with a maturity date of three months or less at the date of purchase.

***Marketable securities***

The Company classifies all of its marketable securities as available-for-sale securities. The Company's investment policy requires the selection of high-quality issuers, with bond ratings of AAA to A1+/P1. Available-for-sale securities are carried at fair market value, with unrealized gains and losses reported as a component of stockholders' equity in accumulated other comprehensive income/loss. Interest and dividend income is recorded when earned and included in interest income. Premiums and discounts on marketable securities are amortized and accreted, respectively, to maturity and included in interest income. The Company uses the specific identification method in computing realized gains and losses on the sale of investments, which would be included in the consolidated statements of operations when generated. Marketable securities with a maturity of more than one year as of the balance sheet date are classified as long-term securities.

***Concentrations of credit risk***

Financial instruments which potentially subject the Company to significant concentrations of credit risk consist primarily of cash, cash equivalents and marketable securities. The Company places its cash, cash equivalents and marketable securities with highly-rated financial institutions and does not hold any investment securities as of December 31, 2007 that have been affected by the recent credit crisis. At December 31, 2007, the Company maintained all of its cash, cash equivalents and marketable securities in three financial institutions. Deposits held with these institutions may exceed the amount of insurance provided on such

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**Notes to the consolidated financial statements — (Continued)**

deposits. Generally, these deposits may be redeemed upon demand, and the Company believes there is minimal risk of losses on such balances.

***Fair value of financial instruments***

The carrying amounts of the Company's financial instruments, which include cash and cash equivalents, marketable securities, restricted cash, and accounts payable, approximate their fair values due to their short maturities.

***Property and equipment***

Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation of property and equipment is provided on a straight-line basis over the estimated useful lives of the assets. Amortization of leasehold improvements is provided on a straight-line basis over the shorter of their estimated useful life or the lease term. The costs of additions and improvements are capitalized, and repairs and maintenance costs are charged to operations in the period incurred.

Upon retirement or disposition of property and equipment, the cost and accumulated depreciation and amortization are removed from the accounts and any resulting gain or loss is reflected in the statement of operations for that period.

***Foreign currency translation***

The functional currency of the Company's wholly-owned foreign subsidiary located in Singapore is the local currency. Assets and liabilities of the Company's foreign subsidiary are translated to United States dollars based on exchange rates at the end of the reporting period. Income and expense items are translated at weighted average exchange rates prevailing during the reporting period. Translation adjustments are accumulated in a separate component of stockholders' equity. Translation gains or losses are included in the determination of operating results.

***Comprehensive income (loss)***

SFAS No. 130, *Reporting Comprehensive Income*, requires a full set of general-purpose financial statements to include the reporting of "comprehensive income." Comprehensive loss is composed of two components, net loss and other comprehensive income/(loss). For the years ended December 31, 2007, 2006 and 2005, other comprehensive income/(loss) consists of cumulative translation adjustments due to foreign currency and unrealized gains/(losses) on marketable securities.

***Accrued expenses***

Management is required to estimate accrued expenses as part of the process of preparing financial statements. The estimation of accrued expenses involves identifying services that have been performed on the Company's behalf, and then estimating the level of service performed and the associated cost incurred for such services as of each balance sheet date in the financial statements. Accrued expenses include professional service fees, such as lawyers and accountants, contract service fees, such as those under contracts with clinical monitors, data management organizations and investigators in conjunction with clinical trials, fees to contract manufacturers in conjunction with the production of clinical materials, and fees for marketing and other commercialization activities. Pursuant to management's assessment of the services that have been performed on clinical trials and other contracts, the Company recognizes these expenses as the services are provided. Such management assessments include, but are not limited to: (1) an evaluation by the project manager of the work that has been completed during the period, (2) measurement of progress prepared internally and/or

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**Notes to the consolidated financial statements — (Continued)**

provided by the third-party service provider, (3) analyses of data that justify the progress, and (4) management's judgment.

***Research and development expenses***

The Company's research and development expenses consist primarily of fees for services provided by third parties in connection with the clinical trials, costs of contract manufacturing services, milestone license fees, costs of materials used in clinical trials and research and development, depreciation of capital resources used to develop products, related facilities costs, and salaries, other employee related costs and stock-based compensation for the research and development personnel. The Company expenses research and development costs as they are incurred, including payments made to date under the license agreements. Manufacturing-related costs are also included in research and development expenses as the Company does not yet have FDA approval for any of its product candidates. Costs related to the acquisitions of intellectual property have been expensed as incurred since the underlying technology associated with these acquisitions were made in connection with the Company's research and development efforts and have no alternative future use. Milestone payments are accrued in accordance with SFAS No. 5, *Accounting for Contingencies*, when it is deemed probable that the milestone event will be achieved.

***General and administrative expenses***

General and administrative expenses consist primarily of salaries, other employee related costs and stock-based compensation for personnel serving executive, business development, marketing, finance, accounting, information technology and human resource functions, facility costs not otherwise included in research and development expenses, insurance costs and professional fees for legal, accounting and other professional services. General and administrative expenses also include third party expenses incurred to support business development, marketing and other business activities related to our product candidate Fiapta<sup>™</sup>, in anticipation of its commercial launch.

***Accounting for stock-based compensation***

The Company accounts for the stock-based compensation expenses in accordance with the Financial Accounting Standards Board (FASB) revised SFAS No. 123, *Share-Based Payment* (SFAS 123(R)) adopted on January 1, 2006. Accordingly, compensation costs for all stock-based awards to employees and directors are measured based on the grant date fair value of those awards and recognized over the period during which the employee or director is required to perform service in exchange for the award. The Company generally recognizes the expense over the award's vesting period.

Prior to January 1, 2006, the Company accounted for stock-based compensation in accordance with Accounting Principles Board Opinion No. 25, *Accounting for Stock Issued to Employees* (APB 25) and FASB Interpretation No. 28, *Accounting for Stock Appreciation Rights and Other Variable Stock Option Plan or Award Plans* (FIN 28). Under APB 25, the stock-based compensation expense was recognized over the vesting period of the option to the extent that the fair value of the stock exceeded the exercise price of the stock at the date of grant.

The Company adopted SFAS 123(R) using the modified prospective transition method. The valuation provisions of SFAS 123(R) apply to new stock-based awards and to stock-based awards that were outstanding at the effective date and subsequently modified or cancelled. Estimated compensation expense for stock-based awards outstanding at the effective date have been recognized over the remaining service period using the compensation cost calculated for pro forma disclosure purposes under FASB Statement No. 123, *Accounting for Stock-Based Compensation* (SFAS 123). In accordance with the modified prospective transition method,

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**Notes to the consolidated financial statements — (Continued)**

the Company's consolidated financial statements for prior periods were not restated to reflect, and do not include, the impact of SFAS 123(R).

For stock awards granted in 2006 and 2007, the fair value of these awards are amortized using the accelerated attribution method. For stock awards granted prior to January 1, 2006, expenses are amortized under the accelerated attribution method for options that were modified after the original grant date and under the straight-line attribution method for all other options. As stock-based compensation expense recognized in the consolidated statements of operations is based on awards ultimately expected to vest, it has been reduced for estimated forfeitures. SFAS 123(R) requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Pre-vesting forfeitures on the options granted during 2006 and 2007 were estimated to be approximately 2% based on the Company's historical experience. In the pro forma information required under SFAS 123 for the periods prior to January 1, 2006, the Company accounted for forfeitures as they occurred. At no time was the cumulative expense recognized less than the fair value of the vested options. The cumulative effect adjustment of adopting the change in estimating forfeitures was not considered material to the Company's financial statements for periods prior to January 1, 2006 upon implementation of SFAS 123(R).

The fair value of each option award is estimated on the date of grant using the Black-Scholes-Merton option pricing model that uses the assumptions noted in the following table. Expected volatility rates are based on historical volatility of the common stock of comparable entities due to the lack of historic information of the Company's publicly traded common stock. The expected term of options granted is based on the transition approach provided by Staff Accounting Bulletin ("SAB") No. 107 as the options meet the "plain vanilla" criteria required by this guidance. The risk-free interest rates are based on the U.S. Treasury yield for a period consistent with the expected term of the option in effect at the time of the grant. The Company has not paid dividends to its stockholders since its inception and does not plan to pay dividends in the foreseeable future.

The weighted average grant date fair value of options granted during the years ended December 31, 2007 and December 31, 2006 was \$18.99 per share and \$13.71 per share, respectively. As of December 31, 2007, approximately \$25.8 million of total unrecognized compensation costs related to non-vested awards is expected to be recognized over a weighted average period of 1.39 years.

Assumptions used in the Black-Scholes-Merton model for employee and director options granted during the years ended December 31, 2007 and 2006 were as follows:

	Year Ended December 31,	
	2007	2006
Expected dividend yield	0%	0%
Weighted average expected volatility	68%	73%
Weighted average expected term (years)	6.25	6.14
Weighted average risk-free rate	4.10%	4.66%

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**Notes to the consolidated financial statements — (Continued)**

Total stock-based compensation expense, related to the Company's stock-based awards to employees and directors, recognized during the years ended December 31, 2007, 2006 and 2005 and for the period from March 13, 2003 (inception) to December 31, 2007 was comprised of the following:

	Year Ended December 31,			Period from March 13, 2003 (Inception) to December 31, 2007
	2007	2006	2005	
Research and development	\$ 4,259,315	\$ 742,048	\$ 788,877	\$ 5,792,326
General and administrative	15,227,529	5,350,291	4,313,300	24,967,741
Stock-based compensation expense	<u>\$ 19,486,844</u>	<u>\$ 6,092,339</u>	<u>\$ 5,102,177</u>	<u>\$ 30,760,067</u>
Stock-based compensation expense per basic and diluted share of common stock	<u>\$ 0.74</u>	<u>\$ 0.38</u>	<u>\$ 300.09</u>	

Since the Company had a net operating loss carryforward as of December 31, 2007, no excess tax benefits for the tax deductions related to stock-based awards were recognized in the consolidated statements of operations. Additionally, no incremental tax benefits were recognized from stock options exercised in 2007 or 2006 which would have resulted in a reclassification to reduce net cash used in operating activities with an offsetting increase in net cash provided by financing activities.

*Pro forma information under SFAS 123 for periods prior to January 1, 2006*

Through fiscal year 2005, the Company accounted for stock-based awards to employees using the intrinsic value method in accordance with APB 25 and related interpretations and provided the required pro forma disclosures of SFAS 123. The intrinsic value method under APB 25 calculates the compensation expense as the difference between the fair value of the common stock on the date such options were granted and their exercise price. Had the Company determined compensation cost based on the fair value at the grant date for its stock options under SFAS 123, the Company's net loss and basic and diluted net loss attributable to common stockholders per share would have been changed to the following pro forma amounts:

	Year Ended December 31, 2005
Net loss attributable to common stockholders	\$ (57,370,924)
Add: Stock based employee compensation expense included in net loss	5,102,177
Less: Stock-based employee compensation expense determined under SFAS 123	<u>(5,167,246)</u>
Pro forma net loss attributable to common stockholders	<u>\$ (57,435,993)</u>
Net loss per share:	
Basic and diluted, net loss attributable to common stockholders as reported	<u>\$ (3,374.33)</u>
Pro forma basic and diluted, net loss attributable to common stockholders	<u>\$ (3,378.15)</u>

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**Notes to the consolidated financial statements — (Continued)**

The weighted average fair value of an option granted during the year ended December 31, 2005 was \$14.89. The fair value of each option grant is estimated on the date of the grant using the Black-Scholes-Merton option pricing model with the following assumptions:

	<b>Year Ended December 31, 2005</b>
Expected dividend yield	0%
Weighted average expected volatility	67%-68%
Weighted average expected term (years)	5
Weighted average risk-free rate	4.00%

***Income taxes***

The Company accounts for income taxes under the liability method in accordance with the provisions of SFAS No. 109, *Accounting for Income Taxes* (SFAS 109), which requires companies to account for deferred income taxes using the asset and liability method. Under the asset and liability method, current income tax expense or benefit is the amount of income taxes expected to be payable or refundable for the current year. A deferred income tax asset or liability is recognized for future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and tax credits and loss carryforwards. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Tax rate changes are reflected in income during the period such changes are enacted. Changes in ownership may limit the amount of net operating loss carryforwards that can be utilized in the future to offset taxable income.

On January 1, 2007, the Company adopted the provisions of Financial Accounting Standards Board Interpretation (“FIN”) No. 48, *Accounting for Uncertainty in Income Taxes*. The adoption of FIN No. 48 did not have a material effect on the Company’s financial position or results of operations.

The Company recognizes interest and penalties accrued related to unrecognized tax benefits as a component of the income tax provision. For the year ended December 31, 2007, there have been no interest and penalties recorded as a component of the income tax provision. The Company’s open tax years under FIN 48 are 2003 through 2007.

***Segment information***

Management has determined that the Company operates in one business segment which is the development and commercialization of pharmaceutical products.

***Recent accounting pronouncements***

In September 2006, the FASB issued FASB Statement No. 157, *Fair Value Measurements* (SFAS 157), which addresses how companies should measure fair value when they are required to use a fair value measure for recognition or disclosure purposes under generally accepted accounting principles (GAAP). SFAS 157 outlines a common definition of fair value to be used throughout GAAP and the new standard intends to make the measurement of fair value more consistent and comparable and improve disclosures about those measures. Companies will need to adopt SFAS 157 for financial statements issued for fiscal years beginning after November 15, 2007. In February 2008, the FASB agreed to delay the effective date of SFAS 157 for all nonfinancial assets and nonfinancial liabilities, except those that are recognized or disclosed at fair value in the financial statements on a recurring basis, to fiscal years beginning after November 15, 2008. This

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**Notes to the consolidated financial statements — (Continued)**

pronouncement is not expected to have significant impact on the Company's results of operations and financial condition.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities, Including an Amendment of FASB Statement No. 115* (SFAS 159). According to this standard the entities will now be permitted to measure many financial instruments and certain other assets and liabilities at fair value on an instrument-by-instrument basis (the fair value option). SFAS 159 is effective for fiscal years beginning after November 15, 2007. This pronouncement is not expected to have significant impact on the Company's results of operations and financial condition.

In June 2007, the Emerging Issues Task Force issued EITF No. 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to Be Used in Future Research and Development Activities* (EITF 07-3), which provides guidance to research and development companies on how to account for the nonrefundable portion of an advance payment made for research and development activities. We will be required to adopt EITF 07-3 for the year beginning after December 15, 2007. This pronouncement is not expected to have significant impact on the Company's results of operations and financial condition.

In December 2007, the FASB issued SFAS No. 141 (revised 2007) *Business Combinations* (SFAS 141R) and SFAS No. 160 *Noncontrolling Interests in Consolidated Financial Statements, an amendment of Accounting Research Bulletin No. 51* (SFAS 160). SFAS 141R will change how business acquisitions are accounted for and will impact financial statements both on the acquisition date and in subsequent periods. SFAS 160 will change the accounting and reporting for minority interests, which will be recharacterized as noncontrolling interests and classified as a component of equity. SFAS 141R and SFAS 160 will be applied to acquisitions that close in years beginning after December 15, 2008. Early adoption is not permitted. These pronouncements are not expected to have significant impact on the Company's results of operations and financial condition.

In December 2007, the FASB ratified EITF Issue 07-1, *Accounting for Collaborative Arrangements* (EITF 07-1). The consensus prohibits the equity method of accounting for collaborative arrangements under APB 18, *The Equity Method of Accounting for Investments in Common Stock*, unless a legal entity exists. Payments between the collaborative partners will be evaluated and reported in the income statement based on applicable GAAP. Absent specific GAAP, the participants to the arrangement will apply other existing GAAP by analogy or apply a reasonable and rational accounting policy consistently. The guidance in Issue 07-1 is effective for periods that begin after December 15, 2008 and will apply to arrangements in existence as of the effective date. The effect of the new consensus will be accounted for as a change in accounting principle through retrospective application. The Company is currently evaluating the impact of EITF 07-1 on its results of operations and financial condition.

***Certain risks and uncertainties***

The Company's product candidates under development require approval from the FDA or other international regulatory agencies prior to commercial sales. There can be no assurance the products will receive the necessary clearance. If the Company is denied clearance or clearance is delayed, it may have a material adverse impact on the Company.

The Company's products are concentrated in rapidly-changing, highly-competitive markets, which are characterized by rapid technological advances, changes in customer requirements and evolving regulatory requirements and industry standards. Any failure by the Company to anticipate or to respond adequately to technological developments in its industry, changes in customer requirements or changes in regulatory requirements or industry standards or any significant delays in the development or introduction of products or services could have a material adverse effect on the Company's business, operating results and future cash flows.

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**Notes to the consolidated financial statements — (Continued)**

The Company depends on single source suppliers for critical raw materials for manufacturing, as well as other components required for the administration of its product candidates. The loss of these suppliers could delay the clinical trials or prevent or delay commercialization of the product candidates.

**3. Earnings per share**

Net loss attributable to common stockholders per share is calculated in accordance with SFAS No. 128, *Earnings per Share*, and Staff Accounting Bulletin (SAB) No. 98. Basic earnings per share (EPS) is calculated by dividing the net loss attributable to common stockholders by the weighted average number of common shares outstanding, reduced by the weighted average unvested common shares subject to repurchase.

Diluted EPS is computed by dividing the net loss attributable to common stockholders by the weighted average number of other potential common stock outstanding for the period. Other potential common stock include Series A and B preferred stock, stock options and warrants but only to the extent that their inclusion is dilutive. The Company incurred a net loss in all periods presented, causing inclusion of any potentially dilutive securities to have an anti-dilutive affect, resulting in dilutive loss per share attributable to common stockholders and basic loss per share attributable to common stockholders being equivalent. The Company did not have any common shares issued for nominal consideration as defined under the terms of SAB No. 98, which would be included in EPS calculations.

	Year Ended December 31,		
	2007	2006	2005
<b>Numerator:</b>			
Net loss	\$ (74,069,690)	\$ (63,511,168)	\$ (23,884,301)
Beneficial conversion feature — deemed dividend to preferred stockholders	—	—	(33,486,623)
Net loss attributable to common stockholders	<u>\$ (74,069,690)</u>	<u>\$ (63,511,168)</u>	<u>\$ (57,370,924)</u>
<b>Denominator:</b>			
Weighted average common shares outstanding	26,370,485	16,040,425	30,346
Weighted average unvested common shares subject to repurchase	(10,308)	(38,610)	(13,344)
Denominator for basic and diluted net loss per share	<u>26,360,177</u>	<u>16,001,815</u>	<u>17,002</u>
Basic and diluted net loss per share attributable to common stockholders	<u>\$ (2.81)</u>	<u>\$ (3.97)</u>	<u>\$ (3,374.33)</u>
<b>Historical outstanding anti-dilutive securities not included in diluted net loss per share calculation:</b>			
Series A and B convertible preferred stock(1)	—	—	15,794,632
Options to purchase common stock	2,938,610	1,706,732	1,532,542
Warrants to purchase common stock	—	—	50,335
	<u>2,938,610</u>	<u>1,706,732</u>	<u>17,377,509</u>

(1) Common stock equivalents assuming conversion upon the initial public offering

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**Notes to the consolidated financial statements — (Continued)**

**4. Marketable securities**

The following is a summary of the Company's available-for-sale marketable securities as of December 31, 2007:

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Market Value
<b>Short-term:</b>				
U.S. Treasury and government agencies	\$ 3,980,732	\$ —	\$ (897)	\$ 3,979,835
U.S. corporate debt	33,301,950	48,247	(11,417)	33,338,780
U.S. asset-based securities	5,920,992	4,353	—	5,925,345
	<u>\$ 43,203,674</u>	<u>\$ 52,600</u>	<u>\$ (12,314)</u>	<u>\$ 43,243,960</u>
<b>Long-term:</b>				
U.S. Treasury and government agencies	\$ 1,999,104	\$ 2,844	\$ —	\$ 2,001,948
U.S. corporate debt	1,988,637	—	(18,597)	1,970,040
U.S. asset-based securities	4,003,480	3,863	—	4,007,343
	<u>\$ 7,991,221</u>	<u>\$ 6,707</u>	<u>\$ (18,597)</u>	<u>\$ 7,979,331</u>

The following is a summary of the Company's available-for-sale marketable securities as of December 31, 2006:

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Market Value
<b>Short-term:</b>				
U.S. corporate debt	\$941,970	\$ 36	\$ (25)	\$941,981
	<u>\$941,970</u>	<u>\$ 36</u>	<u>\$ (25)</u>	<u>\$941,981</u>

**5. Prepaid expenses and other current assets**

The following is a summary of the Company's prepaid expenses and other current assets:

	December 31,	
	2007	2006
Current deposits with vendors	\$ 455,000	\$ 820,000
Prepaid insurance	395,203	337,332
Prepaid research and development expenses	175,955	185,229
Accrued interest income	603,556	97,575
Other prepaid expenses	146,771	332,400
Prepaid public offering costs	—	69,064
Other receivables	5,396	107,866
Total prepaid expenses and other current assets	<u>\$1,781,881</u>	<u>\$1,949,466</u>

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**Notes to the consolidated financial statements — (Continued)**

**6. Property and equipment**

Property and equipment — at cost:

	Estimated Useful Life (Years)	December 31,	
		2007	2006
Laboratory equipment	5	\$ 1,281,877	\$ 1,675,375
Computer equipment	3	758,776	741,404
Furniture and fixtures	7	187,317	169,549
Leasehold improvements	10	505,684	736,518
		<u>2,733,654</u>	<u>3,322,846</u>
Less — accumulated depreciation and amortization		<u>(1,387,809)</u>	<u>(1,463,142)</u>
		<u>\$ 1,345,845</u>	<u>\$ 1,859,704</u>

Depreciation and amortization expense for the years ended December 31, 2007, 2006 and 2005 was \$571,586, \$575,372 and \$423,828. Depreciation and amortization expense for the period from March 13, 2003 (inception) to December 31, 2007 was \$1,968,855.

**7. Restricted cash**

During 2005, in conjunction with the lease of the office and laboratory space building in Rockville, MD, the Company provided the landlord with a letter of credit, which was collateralized with a restricted cash deposit in the amount of \$430,230. The deposit is recorded as non-current restricted cash at December 31, 2007 since the letter of credit is required until the lease expires in 2016.

**8. Accrued liabilities**

Accrued liabilities consist of the following:

	December 31,	
	2007	2006
Accrued research and development expenses	\$ 7,151,360	\$ 4,552,050
Bonus accrual	957,035	1,084,512
Accrued consulting and other professional fees	1,307,650	329,177
Employee benefits	168,275	78,656
Lease abandonment	84,617	232,388
Other accrued expenses	120,801	46,025
Total accrued liabilities	<u>\$9,789,738</u>	<u>\$ 6,322,808</u>

**9. Singapore research facility**

In May 2007, the Company initiated a plan to move its operations out of Singapore to consolidate its discovery research activities in its Rockville, Maryland facility. The consolidation was completed by the end of 2007, and all expenses of the move, including employee severance, loss on the sale of fixed assets and other related costs were recorded in the consolidated financial statements as of December 31, 2007. Total expenses relating to the consolidation of the discovery research activities were not material to the Company's consolidated financial statements.

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**Notes to the consolidated financial statements — (Continued)**

In 2004 the Company's subsidiary in Singapore entered into an agreement with the Economic Development Board of Singapore (EDB) to provide a grant for a development project. During 2005, the Company received a payment from the EDB that was recorded as deferred grant revenue since under certain conditions the EDB could have reclaimed these funds. On September 19, 2007 the Company agreed with the EDB to pay back 50% of the grant and the remaining 50%, or \$71,345, was recognized as other income during the year ended December 31, 2007.

## **10. Commitments**

### *Operating leases*

In 2003, the Company entered into a five-year non-cancelable operating lease agreement for office and laboratory space. In January 2006 the Company vacated and in September 2007 sublet the office space for the remaining term of the lease that expires in June 2008.

In August 2005, the Company entered into a ten-year, six-month non-cancelable operating lease agreement for office and laboratory space at a new office complex in Rockville, Maryland, which is renewable for an additional five-year period at the end of the original term. The lease expires in June 2016. The lease includes a rent abatement and scheduled base rent increases over the term of the lease. The total amount of the base rent payments and rent abatement will be charged to expense on a straight-line method over the term of the lease. In conjunction with a letter of credit, the Company collateralized the operating lease with a restricted cash deposit in the amount of \$430,230, which is recorded as non-current restricted cash at December 31, 2007.

During the second quarter of 2007, the Company exercised an option to lease additional space in its current headquarters in Rockville, Maryland and the additional commitment is reflected in the following schedule of future minimum lease payments for non-cancelable operating leases as of December 31, 2007:

2008	662,174
2009	685,270
2010	705,994
2011	726,992
2012	748,807
Thereafter	<u>2,805,843</u>
	<u>\$ 6,335,080</u>

Rent expense for the years ended December 31, 2007, 2006 and 2005 was \$899,824, \$902,729 and \$299,224. Rent expense for the period from March 13, 2003 (inception) to December 31, 2007 was \$2,560,192.

### *License agreements*

In June 2004 the Company acquired exclusive rights to develop and commercialize Fiapta<sup>™</sup> through a sublicense agreement with Novartis AG (Novartis). In consideration for this license, the Company paid Novartis an initial license fee of \$500,000, which was immediately expensed to research and development expenses. The Company is obligated to make future milestone payments to Novartis of less than \$100 million in the aggregate (the majority of which are tied to sales milestones), as well as royalty payments to Novartis which, as a percentage of net sales, is in the mid-twenties. The Company's rights with respect to the patents to develop and commercialize Fiapta<sup>™</sup> may terminate, in whole or in part, if we fail to meet certain development or commercialization milestones relating to the time it takes for us to launch Fiapta<sup>™</sup> commercially following

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**Notes to the consolidated financial statements — (Continued)**

regulatory approval, and the time it takes for us to receive regulatory approval following our submission of an NDA or equivalent foreign filing. Additionally, our rights may terminate in whole or in part if we do not meet certain other obligations under our sublicense agreement to make royalty and milestone payments, if we fail to comply with requirements in our sublicense agreement regarding our financial condition, or if we do not abide by certain restrictions in our sublicense agreement regarding other development activities.

In February 2004 the Company entered into a license agreement with Bristol-Myers Squibb Company (BMS) under which the Company received an exclusive worldwide license under certain patents and patent applications to develop and commercialize VEC-162. In partial consideration for the license, the Company paid BMS an initial license fee of \$500,000, which was immediately expensed to research and development expenses. The Company is obligated to make future milestone payments to BMS of less than \$40 million in the aggregate (the majority of which are tied to sales milestones) as well as royalty payments based on the net sales of VEC-162 at a rate which, as a percentage of net sales, is in the low teens. The Company is also obligated under this agreement to pay BMS a royalty on certain payments (excluding royalties) that the Company receives from a third party in connection with any sublicensing arrangement, at a rate in the mid-twenties. If the Company has not agreed to one or more partnering arrangements to develop and commercialize VEC-162 in certain significant markets with one or more third parties after the completion of the Phase III program, BMS has the option to exclusively develop and commercialize VEC-162 on its own on pre-determined financial terms, including milestone and royalty payments. If the Company seeks a co-promotion agreement for VEC-162, BMS has a right of first negotiation to enter into such an agreement with the Company. Either party may terminate the agreement under certain circumstances, including a material breach of the agreement by the other.

In June 2004 the Company entered into a license agreement with Novartis under which the Company received an exclusive worldwide license to develop and commercialize VSF-173. In consideration for the license, the Company paid Novartis an initial license fee of \$500,000, which was immediately expensed to research and development expenses. The Company is also obligated to make future milestone payments to Novartis of less than \$50 million in the aggregate (the majority of which are tied to sales milestones) and royalty payments which, as a percentage of net sales, is in the low to mid teens. Either party may terminate the agreement under certain circumstances, including a material breach of the agreement by the other.

During 2006, the Company met a clinical milestone under the VEC-162 agreement with BMS relating to the initiation of its first Phase III clinical trial and made an associated milestone payment of \$1.0 million. In November 2007, the Company met a milestone under this license agreement with Novartis relating to the acceptance of the NDA for Fiapta TM in schizophrenia and made a license payment of \$5.0 million to Novartis. In March 2007, the Company met its first milestone under this license agreement with Novartis relating to the initiation of the Phase II clinical trial for VSF-173, and made an associated milestone payment of \$1,000,000. The milestone license fees were expensed to research and development expenses.

No amounts were recorded as liabilities as of December 31, 2007, since the amount, timing and likelihood of these payments are unknown and will depend on the successful outcome of future clinical trials, regulatory filings, favorable FDA regulatory approvals, growth in product sales and other factors.

***Clinical agreements***

In course of its business the Company regularly enters into agreements with clinical organizations to provide services relating to clinical development and clinical manufacturing activities under fee service arrangements. The Company's current agreements for clinical services may be terminated on no more than 60 days notice without incurring additional charges, other than charges for work completed but not paid for through the effective date of termination and other costs incurred by the Company's contractors in closing out work in progress as of the effective date of termination.

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**Notes to the consolidated financial statements — (Continued)**

***Guarantees and indemnifications***

The Company has entered into a number of standard intellectual property indemnification agreements in the ordinary course of its business. Pursuant to these agreements, the Company indemnifies, holds harmless, and agrees to reimburse the indemnified party for losses suffered or incurred by the indemnified party, generally the Company's business partners or customers, in connection with any U.S. patent or any copyright or other intellectual property infringement claim by any third party with respect to the Company's products. The term of these indemnification agreements is generally perpetual from the date of execution of the agreement. The maximum potential amount of future payments the Company could be required to make under these indemnification agreements is unlimited. Since inception, the Company has not incurred costs to defend lawsuits or settle claims related to these indemnification agreements. The Company also indemnifies its officers and directors for certain events or occurrences, subject to certain limits. The Company believes that the fair value of the indemnification agreements is minimal, and accordingly the Company has not recognized any liabilities relating to these agreements as of December 31, 2007.

**11. Equity incentive plans**

As of December 31, 2007 the Company had two equity incentive plans, the Second Amended and Restated Management Equity Plan adopted in December 2004 (the 2004 Plan) and the 2006 Equity Incentive Plan adopted in April 2006 (the 2006 Plan). An aggregate of 1,169,975 shares were subject to outstanding options granted under the 2004 Plan as of December 31, 2007, and no additional options will be granted under this plan. Reserved under the 2006 Plan as of December 31, 2007 are 2,385,141 shares of the Company's common stock of which 1,768,635 shares were subject to outstanding options as of December 31, 2007. On January 1 of each year, the number of shares reserved under the 2006 Plan is automatically increased by 4% of the total number of shares of common stock that are outstanding at that time, or, if less, by 1,500,000 shares (or such lesser number as may be approved by the Company's board of directors). As of January 1, 2008, the number of shares of common stock that may be issued under the 2006 Plan was automatically increased by 1,066,109 shares, representing 4% of the total number of shares of common stock outstanding on January 1, 2008, increasing the total number of shares of common stock available for issuance under the Plan to 3,451,250 shares.

Options are subject to terms and conditions established by the compensation committee of the board of directors. None of the stock-based awards are classified as a liability as of December 31, 2007. Option awards have 10-year contractual terms and all options granted prior to December 31, 2006 and options granted to new employees vest and become exercisable on the first anniversary of the grant date with respect to the 25% of the option awards. The remaining 75% of the option awards vest and become exercisable monthly in equal installments thereafter over three years. Option awards granted to existing employees after December 31, 2006 vest and become exercisable monthly in equal installments over four years. The initial stock options granted to directors upon their election vest and become exercisable in equal monthly installments over a period of four years, while the subsequent annual stock option grants to directors vest and become exercisable in equal monthly installments over a period of one year. Total of 1,328,067 option awards to executives outstanding as of December 31, 2007 provide for accelerated vesting if there is a change in control of the Company. When an option is exercised, the Company issues a new share of common stock.

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**Notes to the consolidated financial statements — (Continued)**

A summary of option activity for the 2004 Plan is presented below:

	<u>Number of Shares</u>	<u>Weighted Average Exercise Price at Grant Date</u>	<u>Weighted Average Remaining Term (Years)</u>	<u>Aggregate Intrinsic Value</u>
March 13, 2003 (inception)	—	\$ —		
Granted	333,602	0.33		
Cancelled	(18,639)	0.33		
Outstanding at December 31, 2004	314,963	0.33		
Granted	1,318,753	0.33		
Cancelled	(5,249)	0.33		
Exercised	(95,925)	0.33		\$ 456,857
Outstanding at December 31, 2005	1,532,542	1.39		
Granted	38,014	5.97		
Cancelled	(1,118)	0.33		
Exercised	(222,233)	0.33		\$ 5,096,166
Outstanding at December 31, 2006	1,347,205	1.69		
Cancelled	(14,276)	3.72		
Exercised	(162,954)	0.93		\$ 3,325,163
	—			
Outstanding at December 31, 2007	<u>1,169,975</u>	1.77	<u>7.75</u>	<u>\$ 5,988,373</u>
Exercisable at December 31, 2007	<u>591,179</u>	1.70	<u>7.55</u>	<u>\$ 3,166,934</u>

A summary of option activity for the 2006 Plan is presented below:

	<u>Number of Shares</u>	<u>Weighted Average Exercise Price at Grant Date</u>	<u>Weighted Average Remaining Term (Years)</u>	<u>Aggregate Intrinsic Value</u>
Outstanding at January 1, 2006	—	\$ —		
Granted	359,527	20.21		
Outstanding at December 31, 2006	359,527	20.21		
Granted	1,454,801	27.60		
Forfeited	(41,391)	27.85		
Cancelled	(4,302)	28.44		
Outstanding at December 31, 2007	<u>1,768,635</u>	26.08	9.14	<u>\$ —</u>
Exercisable at December 31, 2007	<u>400,836</u>	26.42	9.06	<u>\$ —</u>

The Company received a total of \$148,640 and \$78,524 in cash from the exercises of options during the year ended December 31, 2007 and December 31, 2006, respectively.

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**Notes to the consolidated financial statements — (Continued)**

**12. Equity**

***Public offerings and reverse stock split***

On April 18, 2006 the Company consummated its initial public offering, consisting of 5,750,000 shares of common stock. On April 21, 2006 the underwriters exercised an over-allotment option to purchase an additional 214,188 shares of the Company's common stock. Including the over-allotment shares, the offering totaled 5,964,188 shares at a public offering price of \$10.00 per share, resulting in net proceeds to the Company of approximately \$53.3 million after deducting payments of underwriters' discounts and commissions and offering expenses.

On January 19, 2007 the Company completed its follow-on offering, consisting of 3,800,000 shares of its common stock. On January 22, 2007 the underwriters exercised an over-allotment option to purchase an additional 570,000 shares of the Company's common stock. Including the over-allotment shares being purchased, the offering totaled 4,370,000 shares at a public offering price of \$27.29 per share, resulting in net proceeds to the Company of approximately \$111.3 million after deducting underwriting discounts and commissions and offering expenses.

In connection with the initial public offering, the Company effected a 1-for-3.309755 reverse stock split of the issued and outstanding common stock. Information relating to common stock and common stock-equivalents set forth in these financial statements (including the share numbers in the preceding paragraphs) has been restated to reflect this split for all periods presented. Upon consummation of the initial public offering, all shares of the Company's Series A preferred stock and Series B preferred stock were converted into an aggregate of 15,794,632 shares of common stock.

***Beneficial conversion feature — Series B preferred stock***

In September 2005, the Company completed the sale of an additional 15,040,654 shares of Series B preferred stock for proceeds of approximately \$18.5 million. After evaluating the fair value of the Company's common stock obtainable upon conversion by the stockholders, the Company determined that the issuance of the Series B preferred stock sold in September 2005 resulted in a beneficial conversion feature calculated in accordance with EITF Issue No. 98-5, *Accounting for Convertible Securities with Beneficial Conversion Features or Contingently Adjustable Conversion Ratios*, (EITF 98-5) as interpreted by EITF Issue No. 00-27, *Application of Issue No. 98-5 to Certain Convertible Instruments*, (EITF 00-27) of approximately \$18.5 million which was fully accreted in September 2005 and is recorded as a deemed dividend to preferred stockholders for the year ended December 31, 2005.

In December 2005, the Company closed an additional private placement of 12,195,129 shares of Series B preferred stock for proceeds of approximately \$15.0 million. The Company evaluated the fair value of the Company's common stock obtainable upon conversion by the stockholders using EITF 98-5 and EITF 00-27 and determined that the issuance of the Series B preferred stock sold in December 2005 resulted in a beneficial conversion feature of approximately \$15.0 million that was fully accreted in December 2005 and recorded as a deemed dividend to preferred stockholders for the year ended December 31, 2005.

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**Notes to the consolidated financial statements — (Continued)**

**13. Income taxes**

The tax provision is as follows:

	December 31,		
	2007	2006	2005
Current federal tax expense	\$ —	\$ —	\$ —
Current state tax expense	—	—	—
Current foreign expense	9,879	549	7,649
Deferred tax expense	—	—	—
<b>Total tax expense</b>	<b>\$9,879</b>	<b>\$549</b>	<b>\$7,649</b>

Deferred tax assets consist of the following:

	December 31,	
	2007	2006
<b>Deferred tax asset (liability)</b>		
Net operating loss carryforwards	\$ 40,772,613	\$ 30,900,621
Start-up costs	21,542,179	6,887,075
Stock-based compensation	1,725,983	361,368
Licensing agreements	3,076,083	—
Research and development credit	4,470,774	2,934,686
Depreciation and amortization	(33,797)	(49,654)
Amortization of warrants	12,162	12,162
Accrued and deferred expenses	57,200	61,232
Net deferred tax assets	71,623,197	41,107,490
Deferred tax asset valuation allowance	(71,623,197)	(41,107,490)
	<b>\$ —</b>	<b>\$ —</b>

Based on the Company's limited operating history and management's expectation of future profitability, management believes that the Company's deferred tax assets do not meet the criteria that they will be more likely than not realized. Accordingly, a valuation allowance for the entire deferred tax asset amount has been recorded.

The effective tax rate differs from the U.S. federal statutory tax rate of 34% due to the following:

	December 31,	
	2007	2006
Federal tax at statutory rate	34.0%	34.0%
State taxes	4.6%	4.6%
Change in valuation allowance	(41.2)%	(41.9)%
Research and development credit	2.1%	3.4%
Meals, entertainment and other non-deductable items	0.5%	(0.1)%
Effective tax rate	<b>0.0%</b>	<b>0.0%</b>

At December 31, 2007 and 2006, the Company had U.S. federal and state net operating loss carryforwards of approximately \$105.6 million and \$80.0 million, respectively available to reduce future

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**Notes to the consolidated financial statements — (Continued)**

taxable income, which will begin to expire in 2023. At December 31, 2007 and 2006, the Company had approximately \$4.5 million and \$2.9 million of research and development credit, respectively which will begin to expire in 2023.

These net operating loss carryforwards may be used to offset future taxable income and thereby reduce our U.S. federal income taxes otherwise payable. Section 382 of the Internal Revenue Code of 1986, as amended (“the Code”), imposes an annual limit on the ability of a corporation that undergoes an “ownership change” to use its net operating loss carry forwards to reduce its tax liability. In the event of certain changes in our shareholder base, our ability to utilize certain net operating losses to offset future taxable income in any particular year will be limited pursuant to IRC Section 382.

In addition to our U.S. federal tax net operating loss carryforwards, we also had net operating loss carryforwards in a variety of states in which we operate. In the event of an ownership change, our ability to utilize state net operating losses will be limited by annual limitations similar to those described in Section 382 of the Code.

#### **14. Employee benefit plan**

The Company has a defined contribution plan under the Internal Revenue Code Section 401(k). This plan covers substantially all employees who meet minimum age and service requirements and allows participants to defer a portion of their annual compensation on a pre-tax basis. Currently, the Company matches 50 percent up to the first six percent of employee contributions. All matching contributions have been paid by the Company. The employer match vests over a 4 year period. The total employer match for the years ended December 31, 2007, 2006 and 2005 was \$120,306, \$101,425 and \$55,503.

#### **15. Quarterly financial data (unaudited)**

	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Forth Quarter</u>
<b>2007</b>				
Loss from operations	\$(16,825,608)	\$ (17,643,200)	\$(23,521,894)	\$ (22,047,673)
Net loss	(15,392,760)	(15,985,023)	(21,943,501)	(20,748,406)
Basic and diluted net loss per share attributable to common stockholders	(0.61)	(0.60)	(0.82)	(0.78)
<b>2006</b>				
Loss from operations	\$ (18,413,502)	\$ (22,080,492)	\$ (12,807,234)	\$ (12,407,212)
Net loss	(18,122,450)	(21,373,084)	(12,124,161)	(11,891,473)
Basic and diluted net loss per share attributable to common stockholders	(385.61)	(1.11)	(0.55)	(0.54)

**VANDA PHARMACEUTICALS INC.  
EXHIBIT INDEX**

Exhibit No.	
3.8	Form of Amended and Restated Certificate of Incorporation of the registrant (filed as Exhibit 3.8 to Amendment No. 2 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on March 17, 2006, and incorporated herein by reference)
3.9	Amended and Restated Bylaws of the registrant, as amended on July 24, 2007.
4.1	2004 Securityholder Agreement (as amended) (filed as Exhibit 4.1 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
4.4	Specimen certificate representing the common stock of the registrant (filed as Exhibit 4.4 to Amendment No. 2 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on March 17, 2006, and incorporated herein by reference)
10.1	Registrant's Second Amended and Restated Management Equity Plan (filed as Exhibit 10.1 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.2#	Sublicense Agreement between the registrant and Novartis Pharma AG dated June 4, 2004 (as amended) (relating to iloperidone) (filed as Exhibit 10.2 to Amendment No. 1 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on February 16, 2006, and incorporated herein by reference)
10.3#	Amended and Restated License, Development and Commercialization Agreement by and between Bristol-Myers Squibb Company and the registrant dated July 24, 2005 (relating to VEC-162) (filed as Exhibit 10.3 to Amendment No. 1 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on February 16, 2006, and incorporated herein by reference)
10.4#	NDD-094 License Agreement between Novartis Pharma AG, Novartis AG and the registrant dated June 4, 2004 (relating to VSF-173) (filed as Exhibit 10.4 to Amendment No. 1 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on February 16, 2006, and incorporated herein by reference)
10.7	Lease Agreement between the registrant and Red Gate III LLC dated June 25, 2003 (lease of Rockville, MD office space) (filed as Exhibit 10.7 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.8	Amendment to Lease Agreement between the registrant and Red Gate III LLC dated September 27, 2003 (filed as Exhibit 10.8 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.9	Lease Agreement between the registrant and MCC3 LLC (by Spaulding and Slye LLC) dated August 4, 2005 (filed as Exhibit 10.9 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.10	Summary Plan Description provided for the registrant's 401(k) Profit Sharing Plan & Trust (filed as Exhibit 10.10 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.11	Form of Indemnification Agreement entered into by directors (filed as Exhibit 10.11 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.12	Employment Agreement for Mihael H. Polymeropoulos dated February 10, 2005 (filed as Exhibit 10.12 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.13	Employment Agreement for William D. Clark dated February 10, 2005 (filed as Exhibit 10.13 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)

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<u>Exhibit No.</u>	
10.14	Employment Agreement for Steven A. Shallcross dated October 18, 2005 (filed as Exhibit 10.14 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
10.17	2006 Equity Incentive Plan (filed as Exhibit 10.17 to Amendment No. 2 to the registrant's Registration Statement on Form S-1 (File No. 333-130759), as filed on March 17, 2006, and incorporated herein by reference)
10.18	Employment Agreement for Paolo Baroldi dated July 6, 2006 (filed as Exhibit 10.18 to the registrant's report on Form 10-Q (File No. 000-51863) for the period ending June 30, 2006 and incorporated herein by reference)
10.19	Amendment to Lease Agreement between the registrant and MCC3 LLC (by Spaulding and Slye LLC) dated November 15, 2006 (filed as Exhibit 10.19 to the registrant's report on Form 10-K (File No. 000-51863) for the fiscal year ending December 31, 2006 and incorporated herein by reference)
10.20	Employment Agreement for Al Gianchetti dated October 25, 2007 (filed as Exhibit 10.20 to the registrant's report on Form 10-Q (File No. 000-51863) for the period ending September 30, 2007 and incorporated herein by reference)
10.21	Form of Tax Indemnity Agreement (filed as Exhibit 10.20 to the registrant's report on Form 10-Q (File No. 000-51863) for the period ending September 30, 2007 and incorporated herein by reference)
10.22	Second Amendment to Lease Agreement between the registrant and MCC3 LLC (by Spaulding and Slye MCC3 LLC) dated September 14, 2007
21.1	List of Subsidiaries (filed as Exhibit 21.1. to the Registrant's Registration Statement on Form S-1 (File No. 333-130759), as originally filed on December 29, 2005, and incorporated herein by reference)
23.1	Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm
31.1	Certification of the Chief Executive Officer, as required by Section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of the Chief Financial Officer as required by Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certifications of the Chief Executive Officer and Chief Financial Officer as required by 18 U.S.C. 1350.
32.2	Certifications of the Chief Executive Officer and Chief Financial Officer as required by 18 U.S.C. 1350.

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# Application has been made to the Securities and Exchange Commission to seek confidential treatment of certain provisions. Omitted material for which confidential treatment has been requested has been filed separately with the Securities and Exchange Commission.

**AMENDED AND RESTATED  
BYLAWS OF  
VANDA PHARMACEUTICALS INC.  
A DELAWARE CORPORATION**

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ARTICLE I  
OFFICES AND RECORDS

Section 1.1 Delaware Office. The registered office of the Corporation in the State of Delaware shall be located in the City of Wilmington, County of New Castle.

Section 1.2 Other Offices. The Corporation may have such other offices, either within or without the State of Delaware, as the Board of Directors may designate or as the business of the Corporation may from time to time require.

Section 1.3 Books and Records. The books and records of the Corporation may be kept at the Corporation's headquarters in Rockville, Maryland or at such other locations outside the State of Delaware as may from time to time be designated by the Board of Directors.

ARTICLE II  
STOCKHOLDERS

Section 2.1 Annual Meeting. The annual meeting of the stockholders of the Corporation shall be held at such date, place and/or time as may be fixed by resolution of the Board of Directors.

Section 2.2 Special Meeting. Special meetings of stockholders of the Corporation may be called only by the Chairman of the Board or the Chief Executive Officer or by the Board of Directors acting pursuant to a resolution adopted by a majority of the Whole Board. For purposes of these Amended and Restated Bylaws, the term "Whole Board" shall mean the total number of authorized directors whether or not there exist any vacancies in previously authorized directorships.

Section 2.3 Place of Meeting. The Board of Directors may designate the place of meeting for any meeting of the stockholders. If no designation is made by the Board of Directors, the place of meeting shall be the principal office of the Corporation.

Section 2.4 Notice of Meeting. Except as otherwise required by law, written, printed or electronic notice stating the place, day and hour of the meeting and the purposes for which the meeting is called shall be prepared and delivered by the Corporation not less than ten (10) days nor more than sixty (60) days before the date of the meeting, either personally, by mail, or in the case of stockholders who have consented to such delivery, by electronic transmission (as such term is defined in the Delaware General Corporation Law), to each stockholder of record entitled to vote at such meeting. If mailed, such notice shall be deemed to be delivered when deposited in the U.S. mail with postage thereon prepaid, addressed to the stockholder at his address as it appears on the stock transfer books of the Corporation. Notice given by electronic transmission shall be effective (A) if by facsimile, when faxed to a number where the stockholder has consented to receive notice; (B) if by electronic mail, when mailed electronically to an electronic mail address at which the stockholder has consented to receive such notice; (C) if by posting on an electronic network together with a separate notice of such posting, upon the later to occur of (1) the posting or (2) the giving of separate notice of the posting; or (D) if by

other form of electronic communication, when directed to the stockholder in the manner consented to by the stockholder. Meetings may be held without notice if all stockholders entitled to vote are present (except as otherwise provided by law), or if notice is waived by those not present. Any previously scheduled meeting of the stockholders may be postponed and (unless the Corporation's Restated Certificate of Incorporation (the "Certificate of Incorporation") otherwise provides) any special meeting of the stockholders may be cancelled, by resolution of the Board of Directors upon public notice given prior to the time previously scheduled for such meeting of stockholders.

Section 2.5 Quorum and Adjournment. Except as otherwise provided by law or by the Certificate of Incorporation, the holders of a majority of the voting power of the outstanding shares of the Corporation entitled to vote generally in the election of directors (the "Voting Stock"), represented in person or by proxy, shall constitute a quorum at a meeting of stockholders, except that when specified business is to be voted on by a class or series voting separately as a class or series, the holders of a majority of the voting power of the shares of such class or series shall constitute a quorum for the transaction of such business for the purposes of taking action on such business. No notice of the time and place of adjourned meetings need be given provided such adjournment is for less than thirty (30) days and further provided that no new record date is fixed for the adjourned meeting.

Section 2.6 Proxies. At all meetings of stockholders, a stockholder may vote by proxy executed in writing by the stockholder or as may be permitted by law, or by his duly authorized attorney-in-fact. Such proxy must be filed with the Secretary of the Corporation or his representative, or otherwise delivered telephonically or electronically as set forth in the applicable proxy statement, at or before the time of the meeting.

Section 2.7 Notice of Stockholder Business and Nominations.

A. Nominations of persons for election to the Board of Directors and the proposal of business to be transacted by the stockholders may be made at an annual meeting of stockholders (1) pursuant to the Corporation's notice with respect to such meeting, (2) by or at the direction of the Board of Directors or a committee thereof or (3) by any stockholder of record of the Corporation who was a stockholder of record at the time of the giving of the notice provided for in the following paragraph, who is entitled to vote at the meeting and who has complied with the notice procedures set forth in this Section 2.7.

B. For nominations or other business to be properly brought before an annual meeting by a stockholder pursuant to paragraph (A)(3) of this Section 2.7, (1) the stockholder must have given timely notice thereof in writing to the Secretary of the Corporation, (2) such business must be a proper matter for stockholder action under the Delaware General Corporation Law, (3) if the stockholder, or the beneficial owner on whose behalf any such proposal or nomination is made, has provided the Corporation with a Solicitation Notice, as that term is defined in subclause (c)(iii) of this paragraph, such stockholder or beneficial owner must, in the case of a proposal, have delivered prior to the meeting a proxy statement and form of proxy to holders of at least the percentage of the Corporation's voting shares required under applicable law to carry any such proposal, or, in the case of a nomination or nominations, have delivered prior to the meeting a proxy statement and form of proxy to holders of a percentage of

the Corporation's voting shares reasonably believed by such stockholder or beneficial holder to be sufficient to elect the nominee or nominees proposed to be nominated by such stockholder, and must, in either case, have included in such materials the Solicitation Notice and (4) if no Solicitation Notice relating thereto has been timely provided pursuant to this section, the stockholder or beneficial owner proposing such business or nomination must not have solicited a number of proxies sufficient to have required the delivery of such a Solicitation Notice under this section. To be timely, a stockholder's notice shall be delivered to the Secretary at the principal executive offices of the Corporation not less than forty-five (45) or more than seventy-five (75) days prior to the first anniversary (the "Anniversary") of the date on which the Corporation first mailed its proxy materials for the preceding year's annual meeting of stockholders; provided, however, that if no proxy materials were mailed by the Corporation in connection with the preceding year's annual meeting, or if the date of the annual meeting is advanced more than thirty (30) days prior to or delayed by more than thirty (30) days after the anniversary of the preceding year's annual meeting, notice by the stockholder to be timely must be so delivered not later than the close of business on the later of (x) the 90th day prior to such annual meeting or (y) the 10th day following the day on which public announcement of the date of such meeting is first made. Such stockholder's notice shall set forth: (a) as to each person whom the stockholder proposes to nominate for election or reelection as a director all information relating to such person as would be required to be disclosed in solicitations of proxies for the election of such nominees as directors pursuant to Regulation 14A under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and such person's written consent to serve as a director if elected; (b) as to any other business that the stockholder proposes to bring before the meeting, a brief description of such business, the reasons for conducting such business at the meeting and any material interest in such business of such stockholder and the beneficial owner, if any, on whose behalf the proposal is made; and (c) as to the stockholder giving the notice and the beneficial owner, if any, on whose behalf the nomination or proposal is made (i) the name and address of such stockholder, as they appear on the Corporation's books, and of such beneficial owner, (ii) the class and number of shares of the Corporation that are owned beneficially and of record by such stockholder and such beneficial owner, and (iii) whether either such stockholder or beneficial owner intends to deliver a proxy statement and form of proxy to holders of, in the case of a proposal, at least the percentage of the Corporation's voting shares required under applicable law to carry the proposal or, in the case of a nomination or nominations, a sufficient number of holders of the Corporation's voting shares to elect such nominee or nominees (an affirmative statement of such intent, a "Solicitation Notice").

C. Only persons nominated in accordance with the procedures set forth in this Section 2.7 shall be eligible to serve as directors and only such business shall be conducted at an annual meeting of stockholders as shall have been brought before the meeting in accordance with the procedures set forth in this Section 2.7. The chair of the meeting shall have the power and the duty to determine whether a nomination or any business proposed to be brought before the meeting has been made in accordance with the procedures set forth in these Bylaws and, if any proposed nomination or business is not in compliance with these Bylaws, to declare that such defective proposed business or nomination shall not be presented for stockholder action at the meeting and shall be disregarded.

D. Only such business shall be conducted at a special meeting of stockholders as shall have been brought before the meeting pursuant to the Corporation's notice of meeting. Nominations of persons for election to the Board of Directors may be made at a special meeting of stockholders at which directors are to be elected pursuant to the Corporation's notice of meeting (1) by or at the direction of the Board of Directors or (2) by any stockholder of record of the Corporation who is a stockholder of record at the time of giving of notice provided for in this paragraph, who shall be entitled to vote at the meeting and who complies with the notice procedures set forth in this Section 2.7. Nominations by stockholders of persons for election to the Board of Directors may be made at such a special meeting of stockholders if the stockholder's notice required by paragraph (B) of this Section 2.7 shall be delivered to the Secretary at the principal executive offices of the Corporation not later than the close of business on the later of the 90th day prior to such special meeting or the 10th day following the day on which public announcement is first made of the date of the special meeting and of the nominees proposed by the Board to be elected at such meeting.

E. For purposes of this Section 2.7, "public announcement" shall mean disclosure in a press release reported by the Dow Jones News Service, Associated Press or a comparable national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Section 13, 14 or 15(d) of the Exchange Act.

F. Notwithstanding the foregoing provisions of this Section 2.7, a stockholder shall also comply with all applicable requirements of the Exchange Act and the rules and regulations thereunder with respect to matters set forth in this Section 2.7. Nothing in this Section 2.7 shall be deemed to affect any rights of stockholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Exchange Act.

Section 2.8 Procedure for Election of Directors. Election of directors at all meetings of the stockholders at which directors are to be elected shall be by written ballot, and, except as otherwise set forth in the Certificate of Incorporation with respect to the right of the holders of any series of Preferred Stock or any other series or class of stock to elect additional directors under specified circumstances, a plurality of the votes cast thereat shall elect directors. Except as otherwise provided by law, the Certificate of Incorporation or these Bylaws, all matters other than the election of directors submitted to the stockholders at any meeting shall be decided by a majority of the votes cast affirmatively or negatively.

Section 2.9 Inspectors of Elections.

A. The Board of Directors by resolution shall appoint one or more inspectors, which inspector or inspectors may include individuals who serve the Corporation in other capacities, including, without limitation, as officers, employees, agents or representatives of the Corporation, to act at the meeting and make a written report thereof. One or more persons may be designated as alternate inspectors to replace any inspector who fails to act. If no inspector or alternate has been appointed to act, or if all inspectors or alternates who have been appointed are unable to act, at a meeting of stockholders, the chairman of the meeting shall appoint one or more inspectors to act at the meeting. Each inspector, before discharging his or her duties, shall take and sign an oath to execute faithfully the duties of inspector with strict impartiality and according to the best of his or her ability. The inspectors shall have the duties prescribed by the Delaware General Corporation Law.

Section 2.10 Conduct of Meetings.

A. The Chief Executive Officer shall preside at all meetings of the stockholders. In the absence of the Chief Executive Officer, the Chairman of the Board shall preside at a meeting of the stockholders. In the absence of the Chief Executive Officer or the Chairman of the Board, the Secretary shall preside at a meeting of the stockholders. In the anticipated absence of all officers designated to preside over the meetings of stockholders, the Board of Directors may designate an individual to preside over a meeting of the stockholders.

B. The chairman of the meeting shall fix and announce at the meeting the date and time of the opening and the closing of the polls for each matter upon which the stockholders will vote at a meeting.

C. The Board of Directors may, to the extent not prohibited by law, adopt by resolution such rules and regulations for the conduct of the meeting of stockholders as it shall deem appropriate. Except to the extent inconsistent with such rules and regulations as adopted by the Board of Directors, the chairman of any meeting of stockholders shall have the right and authority to prescribe such rules, regulations and procedures and to do all such acts as, in the judgment of such chairman, are appropriate for the proper conduct of the meeting. Such rules, regulations or procedures, whether adopted by the Board of Directors or prescribed by the chairman of the meeting, may to the extent not prohibited by law include, without limitation, the following: (i) the establishment of an agenda or order of business for the meeting; (ii) rules and procedures for maintaining order at the meeting and the safety of those present; (iii) limitations on attendance at or participation in the meeting to stockholders of record of the Corporation, their duly authorized and constituted proxies or such other persons as the chairman of the meeting shall determine; (iv) restrictions on entry to the meeting after the time fixed for the commencement thereof; and (v) limitations on the time allotted to questions or comments by participants. Unless, and to the extent, determined by the Board of Directors or the chairman of the meeting, meetings of stockholders shall not be required to be held in accordance with the rules of parliamentary procedure.

Section 2.11 No Consent of Stockholders in Lieu of Meeting. Any action required or permitted to be taken by the stockholders of the Corporation must be effected at a duly called annual or special meeting of stockholders of the Corporation and may not be effected by any consent in writing by such stockholders.

ARTICLE III

BOARD OF DIRECTORS

Section 3.1 General Powers. The business and affairs of the Corporation shall be managed by or under the direction of the Board of Directors. In addition to the powers and authority expressly conferred upon them by statute or by the Certificate of Incorporation or by these Bylaws, the directors are hereby empowered to exercise all such powers and do all such acts and things as may be exercised or done by the Corporation.

Section 3.2 Number, Tenure and Qualifications. Subject to the rights of the holders of any series of Preferred Stock to elect additional directors under specified circumstances, the number of directors shall be fixed from time to time exclusively by the Board of Directors pursuant to a resolution adopted by a majority of the Whole Board. The directors, other than those who may be elected by the holders of any series of Preferred Stock under specified circumstances, shall be divided into three classes pursuant to the Certificate of Incorporation. At each annual meeting of stockholders, directors elected to succeed those directors whose terms expire shall be elected for a term of office to expire at the third succeeding annual meeting of stockholders after their election.

Section 3.3 Regular Meetings. The Board of Directors may, by resolution, provide the time and place for the holding of regular meetings of the Board of Directors.

Section 3.4 Special Meetings. Special meetings of the Board of Directors shall be called at the request of the Chairman of the Board, the Chief Executive Officer or a majority of the Board of Directors. The person or persons authorized to call special meetings of the Board of Directors may fix the place and time of the meetings.

Section 3.5 Action By Unanimous Consent of Directors. The Board of Directors may take action without the necessity of a meeting by unanimous consent of directors. Such consent may be in writing or given by electronic transmission, as such term is defined in the Delaware General Corporation Law.

Section 3.6 Notice. Notice of any special meeting shall be given to each director at his business or residence in writing, or by telegram, facsimile transmission, telephone communication or electronic transmission (provided, with respect to electronic transmission, that the director has consented to receive the form of transmission at the address to which it is directed). If mailed, such notice shall be deemed adequately delivered when deposited in the United States mails so addressed, with postage thereon prepaid, at least five (5) days before such meeting. If by telegram, such notice shall be deemed adequately delivered when the telegram is delivered to the telegraph company at least twenty-four (24) hours before such meeting. If by facsimile transmission or other electronic transmission, such notice shall be transmitted at least twenty-four (24) hours before such meeting. If by telephone, the notice shall be given at least twelve (12) hours prior to the time set for the meeting. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Board of Directors need be specified in the notice of such meeting, except for amendments to these Bylaws as provided under Section 8.1 of Article VIII hereof. A meeting may be held at any time without notice if all the directors are present (except as otherwise provided by law) or if those not present waive notice of the meeting in writing or by electronic transmission, either before or after such meeting.

Section 3.7 Conference Telephone Meetings. Members of the Board of Directors, or any committee thereof, may participate in a meeting of the Board of Directors or such committee by means of conference telephone or similar communications equipment by means of which all persons participating in the meeting can hear each other, and such participation in a meeting shall constitute presence in person at such meeting.

Section 3.8 Quorum. A whole number of directors equal to at least a majority of the Whole Board shall constitute a quorum for the transaction of business, but if at any meeting of the Board of Directors there shall be less than a quorum present, a majority of the directors present may adjourn the meeting from time to time without further notice. The act of the majority of the directors present at a meeting at which a quorum is present shall be the act of the Board of Directors.

Section 3.9 Vacancies. Subject to the rights of the holders of any series of Preferred Stock then outstanding, newly created directorships resulting from any increase in the authorized number of directors or any vacancies in the Board of Directors resulting from death, resignation, retirement, disqualification, removal from office or other cause shall, unless otherwise provided by law or by resolution of the Board of Directors, be filled only by a majority vote of the directors then in office, though less than a quorum (and not by stockholders), and directors so chosen shall hold office for a term expiring at the annual meeting of stockholders at which the term of office of the class to which they have been chosen expires or until such director's successor shall have been duly elected and qualified. No decrease in the authorized number of directors shall shorten the term of any incumbent director.

Section 3.10 Committees.

A. The Board of Directors may designate one or more committees, each committee to consist of one or more of the directors of the Corporation. The Board of Directors may designate one or more directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of the committee. In the absence or disqualification of a member of the committee, the member or members thereof present at any meeting and not disqualified from voting, whether or not he or they constitute a quorum, may unanimously appoint another member of the Board of Directors to act at the meeting in place of any such absent or disqualified member. Any such committee, to the extent permitted by law and to the extent provided in the resolution of the Board of Directors, shall have and may exercise all the powers and authority of the Board of Directors in the management of the business and affairs of the Corporation, and may authorize the seal of the Corporation to be affixed to all papers which may require it; provided, however, that no committee shall have power or authority in reference to the following matters: (1) approving, adopting or recommending to stockholders any action or matter required by law to be submitted to stockholders for approval; or (2) adopting, amending or repealing any bylaw.

B. Unless the Board of Directors otherwise provides, each committee designated by the Board of Directors may make, alter and repeal rules for the conduct of its business. In the absence of such rules, each committee shall conduct its business in the same manner as the Board of Directors conducts its business pursuant to these Bylaws.

Section 3.11 Removal. Subject to the rights of the holders of any series of Preferred Stock then outstanding, any director, or the entire Board of Directors, may be removed from office at any time, but only for cause and only by the affirmative vote of the holders of at least a majority of the voting power of all of the then-outstanding shares of capital stock of the Corporation entitled to vote generally in the election of directors, voting together as a single class.

## ARTICLE IV

### OFFICERS

Section 4.1 Elected Officers. The elected officers of the Corporation shall be a Chairman of the Board, a Chief Executive Officer and President, a Secretary, a Treasurer and such other officers as the Board of Directors from time to time may deem proper. The Chairman of the Board shall be chosen from the directors. All officers chosen by the Board of Directors shall each have such powers and duties as generally pertain to their respective offices, subject to the specific provisions of this Article IV. Such officers shall also have powers and duties as from time to time may be conferred by the Board of Directors or by any committee thereof.

Section 4.2 Election and Term of Office. The elected officers of the Corporation shall be elected annually by the Board of Directors at the regular meeting of the Board of Directors held after each annual meeting of the stockholders. If the election of officers shall not be held at such meeting, such election shall be held as soon thereafter as convenient. Subject to Section 4.7 of these Bylaws, each officer shall hold office until his successor shall have been duly elected and shall have qualified or until his death or until he shall resign.

Section 4.3 Chairman of the Board. The Chairman of the Board shall preside at all meetings of the Board.

Section 4.4 Chief Executive Officer and President. The Chief Executive Officer and President shall be the general manager of the Corporation, subject to the control of the Board of Directors, and as such shall, subject to Section 2.10 (A) hereof, preside at all meetings of stockholders, shall have general supervision of the affairs of the Corporation, shall sign or countersign or authorize another officer to sign all certificates, contracts, and other instruments of the Corporation as authorized by the Board of Directors, shall make reports to the Board of Directors and stockholders, and shall perform all such other duties as are incident to such office or are properly required by the Board of Directors. If the Board of Directors creates the office of Chief Executive Officer as a separate office from President, (i) the President shall be the chief operating officer of the Corporation and shall be subject to the general supervision, direction and control of the Chief Executive Officer, unless the Board of Directors provides otherwise, and (iii) expect for this Section 4.4, all references herein to the "President" shall be deemed to refer to the Chief Executive Officer.

Section 4.5 Secretary. The Secretary shall give, or cause to be given, notice of all meetings of stockholders and directors and all other notices required by law or by these Bylaws, and in case of his absence or refusal or neglect so to do, any such notice may be given by any person thereunto directed by the Chairman of the Board, the Chief Executive Officer, the President or by the Board of Directors, upon whose request the meeting is called as provided in these Bylaws. He shall record all the proceedings of the meetings of the Board of Directors, any committees thereof and the stockholders of the Corporation in a book to be kept for that purpose, and shall perform such other duties as may be assigned to him by the Board of Directors, the Chairman of the Board, the Chief Executive Officer or the President. He shall have custody of the seal of the Corporation and shall affix the same to all instruments requiring it, when authorized by the Board of Directors, the Chairman of the Board, the Chief Executive Officer or the President, and attest to the same.

Section 4.6 Treasurer. The Treasurer shall have the custody of the corporate funds and securities and shall keep full and accurate receipts and disbursements in books belonging to the Corporation. The Treasurer shall deposit all moneys and other valuables in the name and to the credit of the Corporation in such depositories as may be designated by the Board of Directors. The Treasurer shall disburse the funds of the Corporation as may be ordered by the Board of Directors the Chairman of the Board, the Chief Executive Officer or the President, taking proper vouchers for such disbursements. The Treasurer shall render to the Chairman of the Board, the Chief Executive Officer, the President and the Board of Directors, whenever requested, an account of all his transactions as Treasurer and of the financial condition of the Corporation. If required by the Board of Directors, the Treasurer shall give the Corporation a bond for the faithful discharge of his duties in such amount and with such surety as the Board of Directors shall prescribe.

Section 4.7 Removal. Any officer elected by the Board of Directors may be removed by the Board of Directors whenever, in their judgment, the best interests of the Corporation would be served thereby. No elected officer shall have any contractual rights against the Corporation for compensation by virtue of such election beyond the date of the election of his successor, his death, his resignation or his removal, whichever event shall first occur, except as otherwise provided in an employment contract or an employee plan.

Section 4.8 Vacancies. A newly created office and a vacancy in any office because of death, resignation, or removal may be filled by the Board of Directors for the unexpired portion of the term at any meeting of the Board of Directors.

## ARTICLE V

### STOCK CERTIFICATES AND TRANSFERS

#### Section 5.1 Stock Certificates and Transfers.

A. Unless the Board of Directors has determined that some or all of any or all classes or series of stock shall be uncertificated shares, the interest of each stockholder of the Corporation shall be evidenced by certificates for shares of stock. The shares of the stock of the Corporation shall be transferred on the books of the Corporation by the holder thereof in person or by his attorney, upon surrender for cancellation of certificates for the same number of shares, with an assignment and power of transfer endorsed thereon or attached thereto, duly executed, and with such proof of the authenticity of the signature as the Corporation or its agents may reasonably require.

B. Every holder of stock represented by certificates shall be entitled to have a certificate signed by, or in the name of the Corporation by the Chairman or Vice Chairman of the Board of Directors, or the President or a Vice President, and by the Treasurer or an Assistant Treasurer, or the Secretary or an Assistant Secretary of the Corporation representing the number of shares registered in certificate form. Any or all of the signatures on the certificate may be a facsimile. In case any officer, transfer agent or registrar who has signed or whose facsimile signature has been placed upon a certificate has ceased to be such officer, transfer agent or registrar before such certificate is issued, it may be issued by the Corporation with the same effect as if he were such officer, transfer agent or registrar at the date of issue.

ARTICLE VI  
INDEMNIFICATION

Section 6.1 Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a “proceeding”), by reason of the fact that he or she is or was a director or officer of the Corporation or, while a director or officer of the Corporation, is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an “indemnitee”), where the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent, shall be indemnified and held harmless by the Corporation to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Corporation to provide broader indemnification rights than permitted prior thereto), against all expense, liability and loss (including attorneys’ fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnitee in connection therewith and such indemnification shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnitee’s heirs, executors and administrators; provided, however, that, except as provided in Section 6.3 hereof with respect to proceedings to enforce rights to indemnification, the Corporation shall indemnify any such indemnitee in connection with a proceeding (or part thereof) initiated by such indemnitee only if such proceeding (or part thereof) was authorized by the Board of Directors of the Corporation.

Section 6.2 Right to Advancement of Expenses. The right to indemnification conferred in Section 6.1 shall include the right to be paid by the Corporation the expenses incurred in defending any proceeding for which such right to indemnification is applicable in advance of its final disposition (hereinafter an “advancement of expenses”); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnitee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnitee, including, without limitation, service to an employee benefit plan) shall be made only upon delivery to the Corporation of an undertaking (hereinafter an “undertaking”), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a “final adjudication”) that such indemnitee is not entitled to be indemnified for such expenses under this Section or otherwise.

Section 6.3 Right of Indemnitee to Bring Suit. The rights to indemnification and to the advancement of expenses conferred in Section 6.1 and Section 6.2, respectively, shall be contract rights. If a claim under Section 6.1 or Section 6.2 is not paid in full by the

Corporation within sixty days after a written claim has been received by the Corporation, except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty days, the indemnitee may at any time thereafter bring suit against the Corporation to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (A) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (B) in any suit by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the Corporation shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Corporation (including its directors who are not parties to such action, a committee of such directors, independent legal counsel, or its stockholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Corporation (including its directors who are not parties to such action, a committee of such directors, independent legal counsel, or its stockholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or by the Corporation to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Section 6.3 or otherwise shall be on the Corporation.

Section 6.4 Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article VI shall not be exclusive of any other right which any person may have or hereafter acquire under the Certificate of Incorporation, these Amended and Restated Bylaws, or any statute, agreement, vote of stockholders or disinterested directors or otherwise.

Section 6.5 Insurance. The Corporation may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Corporation or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Corporation would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 6.6 Amendment of Rights. Any amendment, alteration or repeal of this Article VI that adversely affects any right of an indemnitee or its successors shall be prospective only and shall not limit or eliminate any such right with respect to any proceeding involving any occurrence or alleged occurrence of any action or omission to act that took place prior to such amendment or repeal.

ARTICLE VII  
MISCELLANEOUS PROVISIONS

Section 7.1 Fiscal Year. The fiscal year of the Corporation shall begin on the first day of January and end on the thirty-first day of December of each year.

Section 7.2 Dividends. The Board of Directors may from time to time declare, and the Corporation may pay, dividends on its outstanding shares in the manner and upon the terms and conditions provided by law and its Certificate of Incorporation.

Section 7.3 Seal. The corporate seal shall have inscribed the name of the Corporation thereon and shall be in such form as may be approved from time to time by the Board of Directors.

Section 7.4 Waiver of Notice. Whenever any notice is required to be given to any stockholder or director of the Corporation under the provisions of the Delaware General Corporation Law, a waiver thereof in writing, signed by the person or persons entitled to such notice, or a waiver by electronic transmission, whether before or after the time stated therein, shall be deemed equivalent to the giving of such notice. Neither the business to be transacted at, nor the purpose of, any annual or special meeting of the stockholders of the Board of Directors need be specified in any waiver of notice of such meeting.

Section 7.5 Audits. The accounts, books and records of the Corporation shall be audited upon the conclusion of each fiscal year by an independent certified public accountants selected by the Board of Directors, and it shall be the duty of the Board of Directors to cause such audit to be made annually.

Section 7.6 Resignations. Any director or any officer, whether elected or appointed, may resign at any time by serving written notice of such resignation on the Chairman of the Board, the Chief Executive Officer or the Secretary, or by submitting such resignation by electronic transmission (as such term is defined in the Delaware General Corporation Law), and such resignation shall be deemed to be effective as of the close of business on the date said notice is received by the Chairman of the Board, the Chief Executive Officer, or the Secretary or at such later date as is stated therein. No formal action shall be required of the Board of Directors or the stockholders to make any such resignation effective.

Section 7.7 Contracts. Except as otherwise required by law, the Certificate of Incorporation or these Bylaws, any contracts or other instruments may be executed and delivered in the name and on the behalf of the Corporation by such officer or officers of the Corporation as the Board of Directors may from time to time direct. Such authority may be general or confined to specific instances as the Board may determine. The Chairman of the Board, the Chief Executive Officer, the President or any Vice President may execute bonds, contracts, deeds, leases and other instruments to be made or executed for or on behalf of the Corporation. Subject to any restrictions imposed by the Board of Directors or the Chairman of the Board, the Chief Executive Officer, the President or any Vice President of the Corporation may delegate contractual powers to others under his jurisdiction, it being understood, however, that any such delegation of power shall not relieve such officer of responsibility with respect to the exercise of such delegated power.

Section 7.8 Proxies. Unless otherwise provided by resolution adopted by the Board of Directors, the Chairman of the Board, the Chief Executive Officer, the President or any Vice President may from time to time appoint any attorney or attorneys or agent or agents of the Corporation, in the name and on behalf of the Corporation, to cast the votes which the Corporation may be entitled to cast as the holder of stock or other securities in any other corporation or other entity, any of whose stock or other securities may be held by the Corporation, at meetings of the holders of the stock and other securities of such other corporation or other entity, or to consent in writing, in the name of the Corporation as such holder, to any action by such other corporation or other entity, and may instruct the person or persons so appointed as to the manner of casting such votes or giving such consent, and may execute or cause to be executed in the name and on behalf of the Corporation and under its corporate seal or otherwise, all such written proxies or other instruments as he may deem necessary or proper in the premises.

## ARTICLE VIII AMENDMENTS

Section 8.1 Amendments. Subject to the provisions of the Certificate of Incorporation, these Bylaws may be adopted, amended or repealed at any meeting of the Board of Directors by a resolution adopted by a majority of the Whole Board, provided notice of the proposed change was given in the notice of the meeting in a notice given no less than twenty-four (24) hours prior to the meeting. Subject to the provisions of the Certificate of Incorporation, the stockholders shall also have the power to adopt, amend or repeal these Bylaws, provided that notice of the proposed change was given in the notice of the meeting and provided further that, in addition to any vote of the holders of any class or series of stock of the Corporation required by law or by the Certificate of Incorporation, the affirmative vote of the holders of at least sixty-six and two-thirds percent (66 2/3%) of the voting power of all of the then-outstanding shares of the capital stock of the Corporation entitled to vote generally in the election of directors, voting together as a single class, shall be required to adopt, amend or repeal any provision of these Bylaws.

**SECOND AMENDMENT TO LEASE**

This Second Amendment to Lease ("Second Amendment") is made as of the 14<sup>th</sup> day of September, 2007, by and between MCC3 LLC, a Delaware limited liability company ("Landlord") and Vanda Pharmaceuticals, Inc., a Delaware corporation ("Tenant").

WITNESSETH:

WHEREAS, Landlord and Tenant entered into that certain Lease dated August 14, 2005, as amended by the First Amendment to Lease dated November 15, 2006 (as so amended, the "Original Lease") whereby the Landlord leased to Tenant space (the "Original Premises") on the 3<sup>rd</sup> floor of that building located at 9605 Medical Center Drive, Rockville, Maryland (the "Building"); and

WHEREAS, Landlord and Tenant desire to amend the Original Lease (the Original Lease, as hereby amended, the "Lease") to add to the Original Premises the expansion space located on the 3<sup>rd</sup> floor of the Building and consisting of the area containing approximately 10,225 rentable square feet and shown as cross-hatched on Exhibit A attached hereto and made a part hereof (the "Expansion Space").

NOW, THEREFORE, in consideration of the mutual covenants and promises of the parties and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. The above recitals are incorporated herein by reference.
  2. Subject to the terms and provisions of the Lease, as modified hereby, Landlord hereby leases to Tenant and Tenant hereby leases from Landlord the Expansion Space for the Expansion Space Term (as hereinafter defined).
  3. The "Expansion Space Term" shall mean the term commencing on the earlier to occur of (a) the date on which the Expansion Space is deemed "ready for occupancy" as provided in Exhibit B attached hereto and made a part hereof, (b) the date on which Tenant occupies all or any part of the Expansion Space for purpose of its business operation, or (c) January 1, 2008 (the earlier of such dates being herein referred to as the "Expansion Space Commencement Date") and terminating on the Term Expiration Date, unless sooner terminated in accordance with the Lease (the "Expansion Space Term").
  4. During the Expansion Space Term, all references in the Lease to the "Premises" shall for all purposes be deemed to include, without limitation, the Expansion Space. The Rentable Floor Area of Tenant's Space during the Expansion Term shall include both the Original Premises under the Original Lease plus the Expansion Space and shall be approximately 27,269 rentable square feet.
  5. Beginning on the Expansion Space Commencement Date and continuing thereafter for the remainder of the Term, Tenant shall pay Tenant's Share of Operating Costs, Tenant's Share of Real Estate Taxes and Tenant's Annual Electrical Cost for the entire Premises, including the Expansion Space. Beginning on July 1, 2008 (the "Expansion Space Rent
-

Commencement Date”); and throughout the remainder of the Term, Tenant shall pay Landlord, Annual Rent, at the rate per rentable square foot set forth in the Original Lease, based on the total Rentable Square Feet of the Premises, as expanded in accordance with this Second Amendment. Accordingly, during the Expansion Term the Annual Rent calculations for the remainder of the Third Lease Year (calendar year 2008) and each subsequent Lease Year in Section 4.1 of the Original Lease shall be deleted and replaced by:

**Third Lease Year (July 1, 2008 — December 31, 2008):**

\$24.40	x	27,269	=	\$ 665,363.60
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Fourth Lease Year (January 1, 2009 — December 31, 2009):**

\$25.13	x	27,269	=	\$685,269.97
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Fifth Lease Year: (January 1, 2010 — December 31, 2010):**

\$25.89	x	27,269	=	\$ 705,994.41
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Sixth Lease Year (January 1, 2011 — December 31, 2011):**

\$26.66	x	27,269	=	\$ 726,991.54
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Seventh Lease Year (January 1, 2012 — December 31, 2012):**

\$27.46	x	27,269	=	\$ 748,806.74
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Eighth Lease Year (January 1, 2013 — December 31, 2013):**

\$28.29	x	27,269	=	\$ 771,440.01
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Ninth Lease Year (January 1, 2014 — December 31, 2014):**

\$29.14	x	27,269	=	\$ 794,618.66
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Tenth Lease Year (January 1, 2015 — December 31, 2015):**

\$30.01	x	27,269	=	\$818,342.69
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

**Eleventh Lease Year (January 1, 2016 — June 30, 2016):**

\$30.91	x	27,269	=	\$ 842,884.79
Annual Rent		Rentable Square		Annual Rent
p.r.s.f.		Feet		

The Rentable Floor Area of Tenant's Space for purposes of calculating Tenant's Share shall be 27,269 from and after the Expansion Space Commencement Date through the balance of the Term.

6. The Leasehold Improvements for the Expansion Space shall be completed according to the terms contained in Exhibit B attached hereto.

7. **Expansion Allowance.** In lieu of the Tenant Allowance provided to Tenant in accordance with Article I of the Original Lease (which shall not be available to Tenant for the Expansion Space), Tenant shall receive an allowance for design and construction of improvements in the Expansion Space (including without limitation the costs and fees charged to Landlord by Landlord's Consultant, as defined in Exhibit B) of up to Thirty-Five Dollars (\$35.00) per rentable square foot of Expansion Space (the "Expansion Allowance").

**8. Security Deposit**

Landlord acknowledges that it is currently holding a security deposit from Tenant in the amount of \$430,230 (the "Original Deposit").

Tenant represents and warrants that Tenant currently has and will maintain unencumbered liquid assets as shown in Tenant's financial statement as of the end of June 30, 2007 not less than \$30,000,000.00 in cash, cash equivalents, and marketable securities traded on a public stock exchange (excepting treasury stock in Tenant) (such liquid assets not less than \$30,000,000 being herein referred to as the "Cash Requirement"). In place of an additional security deposit related to the Expansion Space, Tenant shall continue until the expiration of twenty-four (24) months following the Expansion Space Commencement Date to maintain unencumbered liquid assets consisting of cash, cash equivalents and/or marketable securities traded on a public stock exchange (excepting treasury stock in Tenant) in accordance with the Cash Requirement. Tenant shall deliver to Landlord within thirty (30) days following the end of each calendar quarter during such two (2) year period an interim financial statement as of the end of such quarter certified by an authorized financial officer in Tenant and in sufficient detail so Landlord can determine the Tenant continues to satisfy the Cash Requirement. Within ninety (90) days following the end of each fiscal year for Tenant, Tenant shall deliver to Landlord a financial statement as of the end of such fiscal year certified by an authorized financial officer in Tenant in sufficient detail so Landlord can determine the Tenant continues to satisfy the Cash Requirement.

If at the end of any such calendar quarter or fiscal year Tenant fails to satisfy the Cash Requirement, then Tenant shall immediately (but no later than 10 days following Landlord's written demand therefor) deliver to Landlord an additional \$200,000 to Landlord to be added to the Security Deposit (the "Additional Deposit"). Such Additional Deposit shall be in cash or by letter of credit satisfying the requirements of Article 11 of the Lease. Landlord shall hold the Original Deposit and Additional Deposit totaling \$630,230 from and after the date of deposit as a Security Deposit pursuant to the terms of Article XI of the Lease. If as of the first and second anniversaries of the Expansion Space Commencement Date (i) no default by Tenant has occurred, which remains uncured by Tenant, (ii) no Event of Default has occurred, whether or not cured by Tenant, and (iii) Tenant has not assigned the Lease to any person or entity other than a Permitted Assignee, then, effective as of the first day of the next full calendar month following the such first and second anniversaries of the Expansion Space Commencement Date, as the case may be, the amount of the Additional Deposit shall decrease by \$100,000 so that total Security Deposit following the first anniversary of the Expansion Space Commencement Date shall be reduced to \$530,230, and following the second anniversary of the Expansion Space Commencement Date shall be reduced to \$430,230, which amount shall remain as the Security Deposit for the remainder of the Term.

9. **Option to Expand.** Section 2.6 of the Original Lease, the Option to Expand, is hereby deleted in its entirety.

10. **Right to Cancel.** Section 2.4 of the Original Lease is hereby deleted and the following is hereby inserted in lieu thereof:

Notwithstanding anything to the contrary contained in this Lease, if Tenant is not in default beyond applicable notice and cure periods as of the date it delivers a Cancellation Notice (as defined below) and as of the Early Expiration Date (as defined below), Tenant may terminate this Lease effective upon the last day of the sixty-sixth (66<sup>th</sup>) full calendar month following the Expansion Space Commencement Date (the "Early Expiration Date"), by delivery of a written notice (the "Cancellation Notice") and the applicable Termination Payment (as described below) to Landlord no later than the last day of the fifty-fourth (54<sup>th</sup>) full calendar month following the Expansion Space Commencement Date. The Termination Payment due to Landlord should Tenant elect to terminate this Lease shall be the unamortized value, determined as herein provided, of the "Lease Transaction Costs" as of the Early Expiration Date. For purposes hereof, the Lease Transaction Costs shall mean the sum of (i) \$1,340,884.38 (the "Original Lease Transaction Costs"), and (ii) \$646,055.00 (the "Expansion Transaction Costs"). For the purpose of determining the Termination Payment, the Original Lease Transaction Costs (with interest thereon at the cost to Landlord to obtain funds to pay such obligations) shall be amortized on a straight-line basis over the initial ten (10) Lease Years of the Term, and the Expansion Transaction Costs (with interest thereon at the cost to Landlord to obtain funds to pay such obligations) shall be amortized on a straight-line basis over the remainder of the Expansion Term following the Expansion Space Rent Commencement Date. The unamortized values shall be measured by Landlord as of the Early Expiration Date. Upon the Expansion Space Commencement Date, Landlord and Tenant shall execute a Lease Commencement Date Agreement in the form attached to the Lease as Exhibit J that stipulates the amount of the Termination Payment.

If Tenant validly terminates this Lease as herein provided, this Lease shall terminate as of the Early Expiration Date as if such date were the original Term Expiration Date set forth in this Lease and Tenant will vacate and surrender the Premises on the Early Expiration Date in the condition required by Subsection 6.1.2.

11. **Brokers.** Landlord and Tenant each represents and warrants to the other that it has not dealt with any broker, agent or finder in connection with this Second Amendment other than Studley and Jones Lang LaSalle (the "Brokers"). Tenant shall indemnify and hold Landlord harmless from and against any claim for brokerage or other commission to any brokers other than the Brokers based upon any act or conduct of Tenant. Landlord shall pay the commission due and owing to the Brokers pursuant to a separate written agreement. Landlord shall indemnify and hold Tenant harmless, from and against any claim for brokerage or other commission to any brokers other than the Brokers based upon any act or conduct of Landlord.

12. **No Further Modifications.** Except as specifically herein modified, all other terms and conditions of the Lease shall remain unchanged and in full force and effect, and are hereby ratified by both Landlord and Tenant as if fully set forth in this Second Amendment.

13. **Exhibit J.** A new Exhibit J in the form attached hereto is hereby attached to and made a part of the Lease.

14. **Capitalized Terms.** Capitalized terms used in this Second Amendment and not otherwise defined shall have the meaning ascribed to such terms in the Lease.

IN WITNESS WHEREOF, the parties have duly executed this Second Amendment to Lease effective as of the date first written above. This instrument may be executed in multiple counterparts, each of which shall be identical in form and content and shall constitute an original of the document to be retained by the respective parties hereto.

**LANDLORD:**

MCC3 LLC

By: Spaulding and Slye MCC3 LLC, its Manager

By: Spaulding and Slye Holdings LLC, its Manager

By: /s/ Marshall H. Durston

Name: MARSHALL H. DURSTON

Its: Authorized Manager

**TENANT:**

VANDA PHARMACEUTICALS, INC.

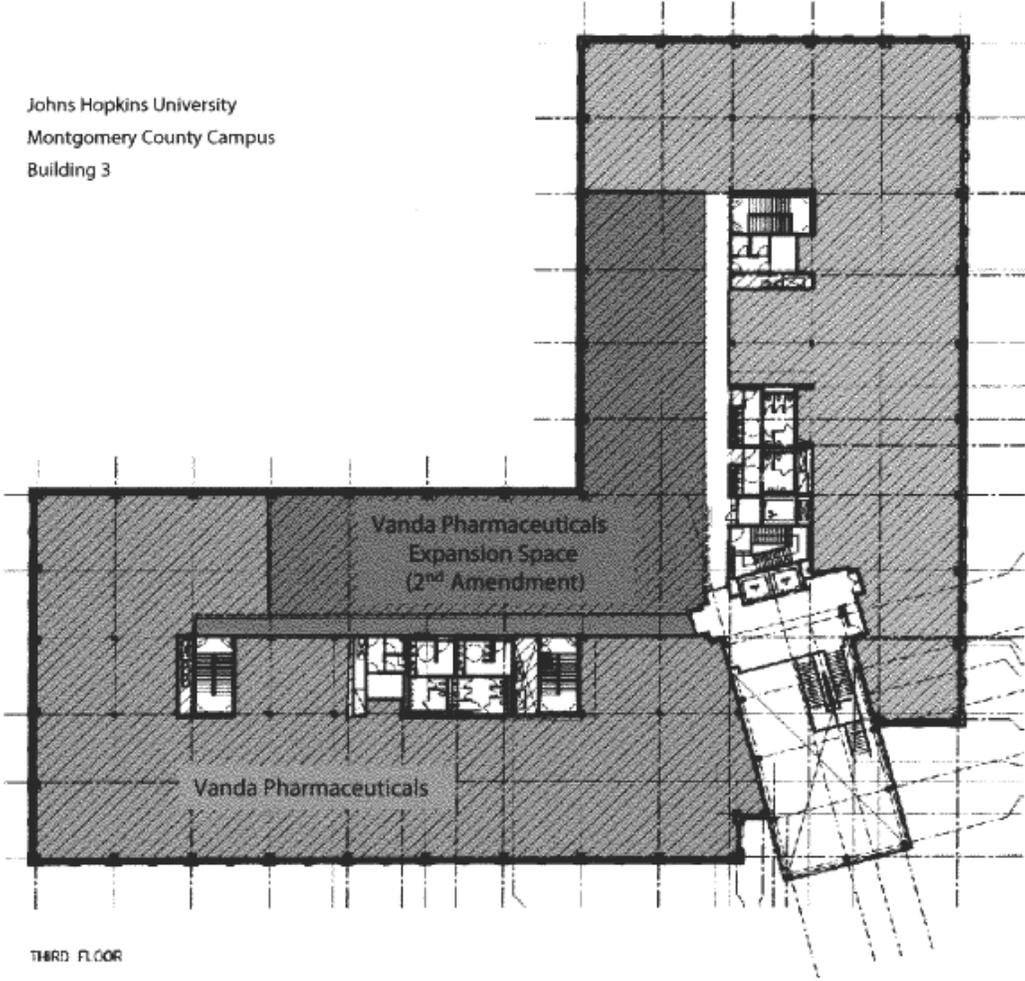
By: /s/ Mihael H. Polymeropoulos

Name: MIHAEL H. POLYMERPOULOS

Title: CEO

**EXHIBIT A**  
**Expansion Space**

Johns Hopkins University  
Montgomery County Campus  
Building 3



THIRD FLOOR

**Exhibit B**  
**CONSTRUCTION**

**EXPANSION SPACE CONSTRUCTION**

Tenant shall provide to Landlord for approval on or before September 1, 2007, complete sets of drawings and specifications for construction of leasehold improvements in the Expansion Space (such complete sets, once approved by Landlord, are referred to herein as the "Complete Plans") all of which shall be prepared at Tenant's expense by an architect selected by Tenant and approved by Landlord (herein referred to as "Tenant's Architect") and Landlord's engineer, including but not limited to:

- a. Furniture and Equipment Layout Plans (for coordination only)
- b. Dimensioned Partition Plans
- c. Dimensioned Electrical and Telephone Outlet Plans
- d. Reflected Ceiling Plans
- e. Door and Hardware Schedules
- f. Room Finish Schedules including wall, carpet and floor tile colors
- g. Electrical, mechanical, plumbing and structural engineering plans
- h. All necessary construction details and specifications.

Landlord and Tenant shall initial the Complete Plans after the same have been submitted by Tenant and approved by Landlord. Tenant shall not amend or supplement the Complete Plans, including by change order, without Landlord's approval, which shall not be unreasonably withheld or delayed.

All work described in the Complete Plans (the "Leasehold Improvements") and the installation of furnishing and telephone outlets shall be performed by a contractor ("Tenant's Contractor") selected by Tenant and approved by Landlord; provided, however, that Tenant shall select Jones Lang LaSalle Construction Company Limited Partnership as Tenant's Contractor if Jones Lang LaSalle Construction Company Limited Partnership submits a bid which Tenant, in its reasonable discretion, considers to be competitive with bids submitted by other potential contractors. Tenant shall provide Landlord a true, correct and complete copy of the construction contract between Tenant and Tenant's Contractor, including all change orders or amendments thereto (the "Tenant's Construction Contract"). Tenant's Construction Contract shall be subject to such rules and regulations as Landlord may from time to time reasonably prescribe regarding the conduct of construction in the Building. Upon completion of the Leasehold Improvements, Tenant shall cause Tenant's Architect to provide Landlord, at Tenant's expense, with a record set of "as-built" drawings in reproducible form and in CADD form.

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All improvements, whether or not paid for by Landlord, and any other improvements which are affixed to any Expansion Space shall be and remain the property of Landlord.

Landlord will not approve any construction, alterations or additions requiring unusual expense to readapt any expansion space to normal office use on lease termination or increasing the cost of construction, insurance or taxes on the Building or of Landlord's services called for by Section 5.1 of the Lease unless Tenant first gives assurances acceptable to Landlord that such readaptation will be made prior to such termination without expense to Landlord and makes provisions acceptable to Landlord for payment of such increased cost. Landlord will also disapprove any alterations or additions requested by Tenant which will delay completion of the Expansion Space. All changes and additions shall be part of the Building except such items as by writing at the time of approval the parties agree either shall be removed by Tenant on termination of this Lease or shall be removed at Tenant's cost or left at Tenant's election.

Tenant covenants to pay for all work performed by Tenant or Tenant's Contractor, and Tenant or Tenant's Contractor shall apply for all permits and licenses required in connection with such work and shall pay all fees due in connection therewith. Tenant shall provide to Landlord copies of the originals of all such permits and licenses, and upon substantial completion of such work shall deliver to Landlord a certificate of occupancy for the portion of the Premises in which the Leasehold Improvements are constructed, if required. All such improvements, whether or not paid for by Landlord, and any other improvements which are affixed to the Premises or any part thereof shall be and remain the property of Landlord; provided, however, that Tenant shall be permitted to retain and shall remove from the Premises on or before the end of the Term all of its moveable personal property. During the performance of any work, Tenant must provide Landlord evidence that Tenant or Tenant's Contractor has in place (i) a policy insuring against "all risks of physical loss" on a builder's risk non-reporting form, having replacement cost and agreed amount endorsements, and (ii) commercial general liability with underlying coverage totaling not less than Ten Million Dollars (\$10,000,000), each such policy to name Landlord and Landlord's lenders as an additional insured (and as loss payee on policies other than commercial general liability insurance) and to be in a form reasonably acceptable to Landlord). Such contractor also must provide evidence that it has in place workmen's compensation insurance in amounts and in form statutorily required. Without in any manner limiting Landlord's rights and Tenant's obligations under any other indemnity set forth in this Lease, Tenant shall defend, with counsel reasonably acceptable to Landlord, save harmless and indemnify Landlord from (a) claims or demands of Tenant's Contractor or anyone claiming by, through or under Tenant's Contractor, and (b) liability for injury, loss, accident, or damage to any person or property, including, without limitation, bodily injury and/or death, and from any claims, actions, proceedings and expenses and costs in connection therewith (including, without limitation, reasonable counsel fees) arising from the acts or omissions of Tenant, its agents, employees, contractor or subcontractors, in performance of any construction, remodeling or redecoration.

#### **EXPANSION SPACE ALLOWANCE**

Landlord shall provide Tenant the Expansion Allowance in the amounts and as specified in Section 7 of the Second Amendment to which this Exhibit is attached (totaling \$357,875). The Expansion Allowance may be applied to Leasehold Improvement-Related Costs incurred for

the Expansion Space. "Leasehold Improvement-Related Costs" shall mean the cost of design, permitting and construction of the Leasehold Improvements, including, without limitation, costs incurred by Tenant for initial space planning by Tenant's Architect, the cost of preparation of the Complete Plans, the cost of sprinklers, fire alarms, smoke detectors, telecommunications equipment, security equipment, exit lights, cabling and furniture, the cost of compliance with all applicable laws (such as, without limitation, the Americans with Disabilities Act), cost of project management and the cost of obtaining all permits, licenses and fees related to the construction of the Leasehold Improvements and as otherwise provided in this Section, including, without limitation, any and all reasonable out-of-pocket fees and charges for the services of Landlord's Consultant (as hereinafter defined).

Before Tenant commences construction of Leasehold Improvements or requests disbursement of any portion of the Expansion Allowance in accordance with this Exhibit, Tenant shall first deliver to Landlord, for approval, a final and complete budget of all Leasehold Improvement-Related Costs, including without limitation the final contract sum established by Tenant's contract with Tenant's Contractor (the said final budget as approved by Landlord is herein referred to as the "Budget"). If the Leasehold Improvement-Related Costs, including without limitation all costs incurred on account of the Leasehold Improvements, including in the costs so incurred any fees and charges of Tenant's Architect paid by Landlord and the cost and fees charged to Landlord by Landlord's Consultant, as set forth in the Budget, will exceed the Expansion Allowance, then Tenant shall pay, promptly when due, and in all events by the Expansion Space Commencement Date (subject only to a reasonable holdback equal to the estimated cost to complete punch-list items which will be completed within thirty (30) days thereafter), all such Leasehold Improvement-Related Costs which exceed the Expansion Allowance. Amounts due and payable on account of change orders shall be added to Expansion Improvement-Related Costs monthly, and Tenant shall pay therefor within thirty (30) days, and in all events by the Expansion Space Commencement Date

The Expansion Allowance shall be paid to Tenant or, at Tenant's request, to the order of Tenant's Contractor or vendors within ten (10) days after receipt of the following documentation: (i) an application for payment covering all work for which disbursement is to be made to a date specified therein signed by Tenant's Contractor or vendors, together with supporting documentation reasonably satisfactory to Landlord demonstrating that Lease Improvement-Related Costs included in the Budget in excess of the Expansion Allowance have been paid ("Tenant's Application for Payment"), (ii) general contractor's, subcontractor's and material supplier's waiver of liens which shall cover all improvements or alterations for which disbursement has been made and all other statements and forms required for compliance with the mechanics' lien laws of the State of Maryland, together with all such supporting data as Landlord may reasonably require; and (iii) a request to disburse from Tenant.

In no event shall Landlord be required to disburse the Tenant Allowance (i) more than once per month, or (ii) during the continuance of any default under the Lease.

#### **PREPARATION OF PREMISES FOR OCCUPANCY**

Tenant shall use reasonable efforts to commence construction of the Leasehold Improvements promptly after the execution and delivery of the Second Amendment and

to substantially complete the Leasehold Improvements by January 1, 2008 (the "Scheduled Completion Date").

**GENERAL PROVISIONS APPLICABLE TO CONSTRUCTION**

All construction work required or permitted by the Second Amendment, shall be done in a good and workmanlike manner and in compliance with all applicable laws and all lawful ordinances, regulations, orders, permits and approvals of governmental authority and insurers of the Building. Landlord may inspect work performed by or for Tenant from time to time during construction and following completion of the same. Landlord shall not charge Tenant any fee for construction management; provided, however, that Landlord may in any case charge Tenant its reasonable out-of-pocket fees and charges for the services of an architect and/or or engineer (collectively "Landlord's Consultant") selected and retained by Landlord to review the Complete Plans and monitor the construction of the Leasehold Improvements; provided, however, that such fees and charges shall not exceed Two Thousand Dollars (\$2,000) in the aggregate.

**REPRESENTATIVES**

Each party authorizes the other to rely in connection with their respective rights and obligations under this Exhibit B upon approval and other actions on the party's behalf by Landlord's Representative in the case of Landlord or Tenant's Representative in the case of Tenant or by any person designated in substitution or addition by notice to the party relying.

**Exhibit J**

**LEASE COMMENCEMENT DATE AGREEMENT**

This Lease Commencement Date Agreement is entered into this \_\_\_\_ day of \_\_\_\_\_, 2007, by MCC3, LLC ("Landlord"), a Delaware limited liability company, and Vanda Pharmaceuticals, Inc. ("Tenant"), a Delaware corporation, pursuant to the provisions of that certain Lease dated August 4, 2005, as amended by First Amendment to Lease dated November 15, 2006 and by Second Amendment to Lease dated June \_\_, 2007 (the "Lease"), by and between Landlord and Tenant covering certain space in the office building located at 9605 Medical Center Drive, Rockville, Maryland (the "Building"). All terms used herein with their initial letter capitalized shall have the meaning assigned to such terms in the Lease.

WITNESSETH:

1. The Premises, including without limitation the Expansion Space have been delivered to, and accepted by, the Tenant.
2. The Expansion Space Commencement Date is the \_\_\_\_ day of \_\_\_\_\_, 20\_\_, and the Term Expiration Date is June 30, 2016.
3. The number of square feet of rentable area in the Premises is 27,269 rentable square feet.
4. As of the date hereof, the Lease has not been further modified and is in full force and effect and there are no defaults thereunder.
5. The Tenant's Share is 23.57% based on the Rentable Floor Area of Tenant's Space divided by the Total Rentable Floor Area of the Building (*i.e.*, 115,691 rentable square feet).
6. The Building Address is 9605 Medical Center Drive, Rockville, MD 20850.

IN WITNESS WHEREOF, Landlord and Tenant have set their hands and seals hereunto and have caused this Lease Commencement Date Agreement to be executed by duly authorized officials thereof, the day and year respectively set forth hereinabove.

LANDLORD:

MCC3, LLC

By: Spaulding and Slye MCC3 LLC, Manager

By: Spaulding and Slye Holdings LLC, Manager

By: \_\_\_\_\_  
Name:  
Title:

TENANT:

VANDA PHARMACEUTICALS, INC.

By: \_\_\_\_\_  
Name:  
Title:

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (No. 333-133368, No. 333-138070, No. 333-141571, and No. 333-148924) of Vanda Pharmaceuticals Inc. and its subsidiary (a development stage enterprise) of our report dated March 13, 2008 relating to the consolidated financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

McLean, Virginia

March 13, 2008

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER  
PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Mihael H. Polymeropoulos, certify that:

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

Date: March 13, 2008

/s/ Mihael H. Polymeropoulos

\_\_\_\_\_  
**Mihael H. Polymeropoulos**  
**President and Chief Executive Officer**  
**(Principal Executive Officer)**

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER  
PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Steven A. Shallcross, certify that:

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

Date: March 13, 2008

/s/ Steven A. Shallcross

**Steven A. Shallcross**  
**Chief Financial Officer**  
**(Principal Financial and Accounting Officer)**

**CERTIFICATION**  
**PURSUANT TO RULE 13A — 14(B) OF THE OF THE SECURITIES EXCHANGE ACT OF 1934**  
**AND 18 U.S.C. SECTION 1350**

In connection with the Annual Report of Vanda Pharmaceuticals Inc. (the “Registrant”) on Form 10-K for the annual period ended December 31, 2007 as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I, Mihael H. Polymeropoulos, certify, in accordance with Rule 13a-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that to the best of my knowledge:

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

Date: March 13, 2008

/s/ Mihael H. Polymeropoulos

**Mihael H. Polymeropoulos**  
**President and Chief Executive Officer**  
**(Principal Executive Officer)**

*A signed original of this written statement required by Rule 13a-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350 has been provided to the Registrant and will be retained by the Registrant and furnished to the Securities and Exchange Commission or its staff upon request.*

*This certification accompanies the Form 10-K to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of the Registrant under the Securities Act of 1933 or the Securities Exchange Act of 1934 (whether made before or after the date of the Form 10-K), irrespective of any general incorporation language contained in such filing.*

**CERTIFICATION**  
**PURSUANT TO RULE 13A — 14(B) OF THE OF THE SECURITIES EXCHANGE ACT OF 1934**  
**AND 18 U.S.C. SECTION 1350**

In connection with the Annual Report of Vanda Pharmaceuticals Inc. (the "Registrant") on Form 10-K for the annual period ended December 31, 2007 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Steven A. Shallcross, certify, in accordance with Rule 13a-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that to the best of my knowledge:

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

Date: March 13, 2008

/s/ Steven A. Shallcross

**Steven A. Shallcross**  
**Chief Financial Officer**  
**(Principal Financial and Accounting Officer)**

*A signed original of this written statement required by Rule 13a-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350 has been provided to the Registrant and will be retained by the Registrant and furnished to the Securities and Exchange Commission or its staff upon request.*

*This certification accompanies the Form 10-K to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of the Registrant under the Securities Act of 1933 or the Securities Exchange Act of 1934 (whether made before or after the date of the Form 10-K), irrespective of any general incorporation language contained in such filing.*