

TorreyPines Therapeutics, Inc.  
Form 10-Q  
August 12, 2008  
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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**  
**FORM 10-Q**

☒ **QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**  
For the quarterly period ended June 30, 2008

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 number: 000-25571

**TORREYPINES THERAPEUTICS, INC.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of

**86-0883978**  
(IRS Employer Id. No.)

incorporation or organization)

**11085 North Torrey Pines Road, Suite 300**

**La Jolla, CA**  
(Address of principal executive offices)

**92037**  
(Zip code)

**Registrant's telephone number, including area code: (858-623-5665)**

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 ☐

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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 definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act.

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

(Do not check if a smaller reporting company)

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

As of August 8, 2008, there were 15,754,058 shares of our Common Stock outstanding.

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**TorreyPines Therapeutics, Inc.**

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**Table of Contents****PART I. FINANCIAL INFORMATION****Item 1. Financial Statements****TorreyPines Therapeutics, Inc.****Consolidated Balance Sheets**

(in thousands, except share and per share data)

|                                                                                                                                                                              | June 30,<br>2008<br>(Unaudited) | December 31,<br>2007 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|
| <b>Assets</b>                                                                                                                                                                |                                 |                      |
| Current assets                                                                                                                                                               |                                 |                      |
| Cash and cash equivalents                                                                                                                                                    | \$ 20,185                       | \$ 32,500            |
| Prepaid expenses                                                                                                                                                             | 248                             | 746                  |
| Other current assets                                                                                                                                                         | 98                              | 89                   |
| Total current assets                                                                                                                                                         | 20,531                          | 33,335               |
| Property and equipment, net                                                                                                                                                  | 645                             | 774                  |
| Purchased patents, net                                                                                                                                                       | 3,319                           | 3,515                |
| Investment in OXIS International, Inc.                                                                                                                                       | 419                             | 979                  |
| Other assets                                                                                                                                                                 | 51                              | 49                   |
| Total assets                                                                                                                                                                 | \$ 24,965                       | \$ 38,652            |
| <b>Liabilities and stockholders' equity</b>                                                                                                                                  |                                 |                      |
| Current liabilities                                                                                                                                                          |                                 |                      |
| Accounts payable and accrued liabilities                                                                                                                                     | \$ 5,206                        | \$ 5,462             |
| Deferred rent, current portion                                                                                                                                               | 12                              |                      |
| Long-term debt, current portion                                                                                                                                              | 720                             | 3,574                |
| Total current liabilities                                                                                                                                                    | 5,938                           | 9,036                |
| Long-term debt, net of current portion                                                                                                                                       | 2,823                           | 954                  |
| Deferred revenue                                                                                                                                                             | 450                             | 2,183                |
| Deferred rent                                                                                                                                                                |                                 | 19                   |
| Total liabilities                                                                                                                                                            | 9,211                           | 12,192               |
| Commitments and contingencies                                                                                                                                                |                                 |                      |
| Stockholders' equity                                                                                                                                                         |                                 |                      |
| Preferred stock, \$0.001 par value, 15,000,000 shares authorized, 0 shares outstanding at June 30, 2008 and December 31, 2007, respectively                                  |                                 |                      |
| Common stock, \$0.001 par value, 150,000,000 shares authorized, 15,754,058 and 15,738,496 shares issued and outstanding at June 30, 2008 and December 31, 2007, respectively | 16                              | 16                   |
| Additional paid-in capital                                                                                                                                                   | 122,786                         | 122,359              |
| Accumulated other comprehensive income                                                                                                                                       | 696                             | 486                  |
| Accumulated deficit                                                                                                                                                          | (107,744)                       | (96,401)             |
| Total stockholders' equity                                                                                                                                                   | 15,754                          | 26,460               |

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|                                            |           |           |
|--------------------------------------------|-----------|-----------|
| Total liabilities and stockholders' equity | \$ 24,965 | \$ 38,652 |
|--------------------------------------------|-----------|-----------|

*See accompanying notes.*

**Table of Contents****TorreyPines Therapeutics, Inc.****Consolidated Statements of Operations**

(in thousands, except share and per share data)

(Unaudited)

|                                                                                             | <b>Three Months Ended<br/>June 30,</b> |                | <b>Six Months Ended<br/>June 30,</b> |                |
|---------------------------------------------------------------------------------------------|----------------------------------------|----------------|--------------------------------------|----------------|
|                                                                                             | <b>2008</b>                            | <b>2007</b>    | <b>2008</b>                          | <b>2007</b>    |
| <b>Revenue</b>                                                                              |                                        |                |                                      |                |
| License and option fees                                                                     | \$ 450                                 | \$ 1,700       | \$ 1,733                             | \$ 3,400       |
| Research funding                                                                            | 762                                    | 763            | 1,525                                | 1,525          |
| <br>Total revenue                                                                           | <br>1,212                              | <br>2,463      | <br>3,258                            | <br>4,925      |
| <b>Operating expenses:</b>                                                                  |                                        |                |                                      |                |
| Research and development                                                                    | 5,491                                  | 7,052          | 10,751                               | 12,229         |
| General and administrative                                                                  | 1,751                                  | 1,463          | 3,199                                | 2,858          |
| <br>Total operating expenses                                                                | <br>7,242                              | <br>8,515      | <br>13,950                           | <br>15,087     |
| Loss from operations                                                                        | (6,030)                                | (6,052)        | (10,692)                             | (10,162)       |
| Other income (expense)                                                                      |                                        |                |                                      |                |
| Interest income                                                                             | 113                                    | 587            | 330                                  | 1,195          |
| Interest expense                                                                            | (110)                                  | (216)          | (257)                                | (453)          |
| Equity in income of OXIS International, Inc.                                                |                                        | 315            |                                      | 89             |
| Fair value adjustment to Investment in OXIS International, Inc.                             | (1,258)                                |                | (559)                                |                |
| Warrant valuation adjustment                                                                |                                        | 208            |                                      | 892            |
| Loss on extinguishment of debt                                                              | (165)                                  |                | (165)                                |                |
| <br>Total other income (expense)                                                            | <br>(1,420)                            | <br>894        | <br>(651)                            | <br>1,723      |
| <br>Net loss                                                                                | <br>\$ (7,450)                         | <br>\$ (5,158) | <br>\$ (11,343)                      | <br>\$ (8,439) |
| <br>Basic and diluted net loss per share                                                    | <br>\$ (0.47)                          | <br>\$ (0.33)  | <br>\$ (0.72)                        | <br>\$ (0.54)  |
| <br>Weighted average shares used in the computation of basic and diluted net loss per share | <br>15,748,104                         | <br>15,711,588 | <br>15,743,875                       | <br>15,699,834 |

*See accompanying notes.*

**Table of Contents****TorreyPines Therapeutics, Inc.****Consolidated Statements of Cash Flows**

(in thousands)

(Unaudited)

|                                                                             | <b>Six months ended<br/>June 30,</b> |             |
|-----------------------------------------------------------------------------|--------------------------------------|-------------|
|                                                                             | <b>2008</b>                          | <b>2007</b> |
| <b>Operating activities</b>                                                 |                                      |             |
| Net loss                                                                    | \$ (11,343)                          | \$ (8,439)  |
| Adjustments to reconcile net loss to net cash used in operating activities: |                                      |             |
| Depreciation                                                                | 149                                  | 196         |
| Stock-based compensation                                                    | 350                                  | 326         |
| Amortization of debt discount                                               | 61                                   | 66          |
| Amortization of purchased patents                                           | 195                                  | 195         |
| Deferred rent                                                               | (6)                                  | 3           |
| Deferred revenue                                                            | (1,733)                              | 1,600       |
| Equity in income of OXIS International, Inc.                                |                                      | (89)        |
| Loss on extinguishment of debt                                              | 105                                  |             |
| Change in fair value of investment in OXIS International, Inc.              | 559                                  |             |
| Change in warrant valuation                                                 |                                      | (892)       |
| Changes in operating assets and liabilities:                                |                                      |             |
| Prepaid expenses and other current assets                                   | 493                                  | 80          |
| Other assets                                                                | 46                                   |             |
| Accounts payable and accrued liabilities                                    | (257)                                | (204)       |
| Net cash used in operating activities                                       | (11,381)                             | (7,158)     |
| <b>Investing activities</b>                                                 |                                      |             |
| Purchases of property and equipment                                         | (19)                                 | (73)        |
| Net cash used in investing activities                                       | (19)                                 | (73)        |
| <b>Financing activities</b>                                                 |                                      |             |
| Issuance of common stock                                                    | 18                                   | 43          |
| Debt issue costs                                                            | (48)                                 |             |
| Proceeds from long-term debt                                                | 3,600                                |             |
| Payments on long-term debt                                                  | (4,693)                              | (1,556)     |
| Net cash used in financing activities                                       | (1,123)                              | (1,513)     |
| Effect of exchange rate changes on cash                                     | 208                                  | 72          |
| Net decrease in cash and cash equivalents                                   | (12,315)                             | (8,672)     |
| Cash and cash equivalents at beginning of period                            | 32,500                               | 55,383      |
| Cash and cash equivalents at end of period                                  | \$ 20,185                            | \$ 46,711   |
| <b>Supplemental disclosure of cash flow information</b>                     |                                      |             |
| Cash paid for interest                                                      | \$ 196                               | \$ 387      |

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Warrant issued in conjunction with debt

*See accompanying notes.*

\$ 58 \$

**Table of Contents****TorreyPines Therapeutics, Inc.****Notes to Consolidated Financial Statements****June 30, 2008**

(Unaudited)

**(1) Basis of Presentation**

The accompanying unaudited consolidated financial statements of TorreyPines Therapeutics, Inc. (together with our wholly-owned subsidiaries, TPTX, Inc. and TorreyPines Therapeutics Europe NV) should be read in conjunction with the audited financial statements and notes thereto as of, and for the year ended December 31, 2007 included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission (the SEC) on March 31, 2008. The accompanying financial statements have been prepared in accordance with United States generally accepted accounting principles (GAAP) and with the rules and regulations of the SEC related to a quarterly report on Form 10-Q. Accordingly, they do not include all of the information and disclosures required by GAAP for complete financial statements. In the opinion of our management, the accompanying financial statements reflect all adjustments (consisting of normal recurring adjustments) that are necessary for a fair presentation of the financial position, results of operations and cash flows for the interim periods presented. Interim results are not necessarily indicative of results for a full year. References in this report to TorreyPines, Company, we, us and our refer to TorreyPines Therapeutics, Inc. and its subsidiaries.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and the accompanying notes. Actual results could differ from those estimates.

Certain reclassifications have been made to prior period amounts to conform to current period presentation.

**(2) Adoption of New Accounting Standards**

On January 1, 2008 we adopted the provisions of Statement of Financial Accounting Standards (SFAS) No. 157, *Fair Value Measurements*, which provides a single definition of fair value, a framework for measuring fair value, and expanded disclosures concerning fair value. Previously, different definitions of fair value were contained in various accounting pronouncements creating inconsistencies in measurement and disclosures. SFAS No. 157 applies under those previously issued pronouncements that prescribe fair value as the relevant measure of value, except Statement No. 123R and related interpretations and pronouncements that require or permit measurement similar to fair value but are not intended to measure fair value.

On January 1, 2008, we adopted the provisions of SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities Including an Amendment of FASB Statement No. 115*. This standard permits an entity to choose to measure many financial instruments and certain other items at fair value. Under SFAS No. 159, we elected to apply the fair value option to our investment in OXIS International, Inc. (investment in OXIS).

See Note 5 for more information regarding this investment and the election of SFAS No. 157 and SFAS No. 159.

**(3) Comprehensive Loss**

SFAS No. 130, *Reporting Comprehensive Income*, requires that all components of comprehensive income, including net income or loss and foreign currency translation adjustments, be reported in the financial statements in the period in which they are recognized. Comprehensive income or loss is defined as the change in equity during a period from transactions and other events and circumstances from non-owner sources. Our comprehensive loss is as follows (amounts in thousands):

|          | <b>Three Months Ended</b> |             | <b>Six Months Ended</b> |             |
|----------|---------------------------|-------------|-------------------------|-------------|
|          | <b>June 30,</b>           |             | <b>June 30,</b>         |             |
|          | <b>2008</b>               | <b>2007</b> | <b>2008</b>             | <b>2007</b> |
| Net loss | \$ (7,450)                | \$ (5,158)  | \$ (11,343)             | \$ (8,439)  |

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|                                          |            |            |             |            |
|------------------------------------------|------------|------------|-------------|------------|
| Foreign currency translation adjustments |            | 36         | 210         | 70         |
| Comprehensive loss                       | \$ (7,450) | \$ (5,122) | \$ (11,133) | \$ (8,369) |

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### **(4) Net Loss Per Share**

We calculate net loss per share in accordance with SFAS No. 128, *Earnings Per Share*. Net loss per share is computed on the basis of the weighted-average number of shares of common stock outstanding during the periods presented. Net loss per share assuming dilution is computed on the basis of the weighted-average number of common shares outstanding and the dilutive effect of all common stock equivalents. For the three and six months ended June 30, 2008 and 2007, there is no difference between basic and diluted net loss per share attributable to common stockholders because the effect of common stock equivalents outstanding during the periods, including stock options, restricted stock units and warrants, is antidilutive.

### **(5) Investment in OXIS**

Our investment in OXIS consists of approximately 14 million shares of OXIS common stock and represents approximately 30% of the outstanding voting stock of OXIS. As indicated in Note 2, effective January 1, 2008 we elected to apply the fair value option for our investment in OXIS. Prior to this election, we accounted for our investment in OXIS under the equity method of accounting following Accounting Principles Bulletin No. 18. We believe fair value provides a more objective measurement of the value of this investment than the equity method of accounting. The investment in OXIS is a Level 1 asset within the fair value hierarchy established by SFAS No. 157 because the investment has a quoted price in an active market, the Over-The-Counter Bulletin Board.

As of December 31, 2007 our investment in OXIS was carried at fair value because we determined that an other-than-temporary impairment of value had occurred. As such, there was no cumulative-effect adjustment to the opening balance of retained earnings as a result of our electing to apply the fair value option for our investment in OXIS. All unrealized gains and losses associated with this investment will be included in current period earnings or loss in the statement of operations.

As of June 30, 2008 the quoted price of OXIS common stock on the Over-The-Counter Bulletin Board was \$0.03. For the three and six months ended June 30, 2008, the total decline in fair value of the investment in OXIS was \$1.3 million and \$0.5 million, respectively, and was recorded in the statement of operations as a fair value adjustment to investment in OXIS International, Inc. The OXIS financial results for the three and six months ended June 30, 2008 were not available when we filed this Quarterly Report on Form 10Q, therefore we are unable to determine what our equity in the OXIS net income or loss for the three and six months ended June 30, 2008 would have been if we had continued to follow the equity method of accounting for the OXIS investment. The adoption of SFAS No. 159 for our investment in OXIS has no effect on our deferred tax assets and liabilities.

### **(6) Notes Payable**

In June 2008, we repaid the outstanding balance on notes payable that we entered into during 2005 (the 2005 Debt). The total payoff of the 2005 Debt was \$3.0 million and included early payoff fees of \$60,000. The 2005 Debt had an unamortized debt discount as of the date of payoff of \$105,000. The debt payoff was accounted for as a debt extinguishment, therefore the unamortized debt discount and early payoff fees were recorded as a loss on the early extinguishment of debt on the statement of operations. The 2005 Debt carried an annual interest rate of 11.39% and was scheduled to be paid in full in March 2009.

In June 2008 we entered into a new note agreement with a different financial institution to borrow \$3.6 million with an annual interest rate of prime plus 1% (6% at June 30, 2008). The note has a three year term and is payable in 30 equal monthly installments of principal and interest, with interest-only payments payable during the period July through December 2008 and principal and interest payments beginning in January 2009. The note is collateralized by a security interest in substantially all of our assets, including our right to payments arising from the sale, license or other disposition of our intellectual property and to the underlying intellectual property only to the extent necessary to enforce the security interest in such payments. In connection with the note agreement, we incurred debt issuance costs of \$48,000 which were recorded as a deferred charge and classified as other assets on the balance sheet. The debt issuance costs are being amortized as a component of interest expense over the term of the loan. The aggregate unamortized debt issuance costs as of June 30, 2008 were \$47,000.

In connection with this new note agreement, we issued a warrant to the lender to purchase 78,832 shares of our common stock at an exercise price of \$1.37 per share. The warrant was valued using the Black-Scholes model assuming a risk-free interest rate of 3.5%, a dividend yield of 0%, expected volatility of 63% and a contractual life of the warrants of five years. The fair value of the warrant was \$58,000 and was recorded as a debt discount. The debt discount is being amortized as additional interest expense over the term of the loan. The aggregate unamortized debt discount as of June 30, 2008 was \$57,000.

Pursuant to the terms of the agreement, we are required to maintain a cash balance with the lender's bank of at least \$5.4 million. Additionally, we are subject to other financial and non-financial covenants, including a Material Adverse Effect clause. The Material Adverse Effect clause

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permits the holder of the note to call the balance in the event of a circumstance that could have a Material Adverse Effect. A Material Adverse Effect is defined as any circumstance that has a material adverse effect on (i) our business operations or condition (financial or otherwise), (ii) our ability to repay the note or otherwise perform our obligations under the agreement, or (iii) our interest in, or the value, perfection or priority of the lender's security interest in the collateral. As of June 30, 2008 no Material Adverse Effect circumstances have occurred and we are in compliance with all covenants.

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### **(7) Commitments and Contingencies**

Several lawsuits were filed against us in February 2005 in the U.S. District Court for the Southern District of New York asserting claims under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, or the Exchange Act and Rule 10b-5 thereunder on behalf of a class of purchasers of Axonyx common stock during the period from June 26, 2003, through and including February 4, 2005, referred to as the class period. Dr. Marvin S. Hausman, M.D., a former director and our former Chief Executive Officer, and Dr. Gosse B. Bruinsma, M.D., also a former director and our former Chief Executive Officer, were also named as defendants in the lawsuits. These actions were consolidated into a single class action lawsuit in January 2006. On April 10, 2006, the class action plaintiffs filed an amended consolidated complaint. The Company filed its answer to that complaint on May 26, 2006. The Company's motion to dismiss the consolidated amended complaint was filed on May 26, 2006 and was submitted to the court for a decision in September 2006. The motion to dismiss is pending.

The class action plaintiffs allege generally that the Company's Phase III phenserine development program was subject to alleged errors of design and execution which resulted in the failure of the first Phase III phenserine trial to show efficacy. Plaintiffs allege the defendants' failure to disclose the alleged defects resulted in the artificial inflation of the price of the Company's shares during the class period.

There is also a shareholder derivative suit pending in New York Supreme Court, New York County, against our current and former directors and officers. The named defendants are Marvin S. Hausman, M.D., Gosse B. Bruinsma, M.D., S. Colin Neill, Louis G. Cornacchia, Steven H. Ferris, Ph.D., Gerard J. Vlak, Ralph Snyderman, M.D. and Michael A. Griffith. Defendants are alleged to have breached their duties to the Company and misused inside information regarding clinical trials of phenserine. This action has been stayed pending further developments in the federal class action.

The complaints seek unspecified damages. Management believes the claims are without merit and plans to defend the claims vigorously. The Company has determined that a loss in connection with these matters is possible, but not probable. Accordingly, the Company has not recorded any liability relating to these matters.

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### **Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations**

*This discussion and analysis should be read in conjunction with our unaudited financial statements and notes included in this Quarterly Report on Form 10-Q and the audited financial statements and notes as of and for the year ended December 31, 2007 included with the our Annual Report on Form 10-K filed with the Securities and Exchange Commission, or SEC, on March 31, 2008. Operating results are not necessarily indicative of results that may occur in future periods.*

*The following discussion of our financial condition contains certain statements that are not strictly historical and are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and involve a high degree of risk and uncertainty. Our actual results may differ materially from those projected in the forward-looking statements due to risks and uncertainties that exist in our operations, development efforts and business environment, including those set forth under the Section entitled Risk Factors in Part II, Item 1A, and other documents we file with the SEC. All forward-looking statements included in this report are based on information available to us as of the date hereof, and, unless required by law, we assume no obligation to update any such forward-looking statement.*

### **Overview**

#### ***Company Overview***

We are a biopharmaceutical company committed to providing patients with better alternatives to existing therapies through the research, development and commercialization of small molecule compounds. Our goal is to develop versatile product candidates each capable of treating a number of acute and chronic diseases and disorders such as migraine, chronic pain, muscle spasticity and rigidity, xerostomia and cognitive disorders. We are currently developing three product candidates, two ionotropic glutamate receptor antagonists and one muscarinic receptor agonist.

Our two ionotropic glutamate receptor antagonists, tezampanel and NGX426, are currently in clinical development. Tezampanel and NGX426 competitively block the binding of glutamate at glutamate receptors, specifically the AMPA and kainate receptor subtypes. While normal glutamate production is essential, excess glutamate has been implicated in a number of diseases and disorders. Tezampanel and NGX426 are the first glutamate receptor antagonists with this combined binding activity to be tested in humans. In October 2007, we released the results of a Phase IIB clinical trial of tezampanel, our most advanced product candidate. In this clinical trial, a single dose of tezampanel given by injection was statistically significant compared to placebo in treating acute migraine headache. This was the sixth Phase II trial in which tezampanel has been shown to have analgesic activity. We intend to hold an end of Phase II meeting with the FDA on September 29, 2008 to discuss the scope of a Phase III program for tezampanel in acute migraine. Assuming a successful outcome of this meeting, and additional financial resources, we plan to move forward with a Phase III program with tezampanel for the treatment of acute migraine. In the first half of 2009 we plan to initiate a small, Phase II trial of tezampanel for the treatment of muscle spasticity and rigidity, a disorder commonly associated with spinal cord trauma, stroke, and multiple sclerosis. If initiated, this will be our first clinical trial of tezampanel in a non-pain indication.

NGX426 is an oral prodrug of tezampanel. In clinical trials, NGX426 has been shown to rapidly convert to tezampanel. We have completed enrollment in a Phase I clinical trial that is intended to identify the maximum tolerated single dose of NGX426 when given to healthy adults. To date we have dosed subjects up to 210 mg, the maximum dose allowable under the protocol, and we have yet to reach the maximum tolerated dose. We are analyzing the data, and we may amend the protocol to continue dosing to allow us to reach the maximum tolerated dose. In June 2008 we initiated a clinical trial in healthy adults to determine the analgesic effect of NGX426 and expect to release results of this trial by the end of 2008. In addition, by the end of the year we intend to initiate a Phase I trial to evaluate multiple doses of NGX426 given to healthy adults.

Our muscarinic receptor agonist currently in clinical development is NGX267. We have completed three Phase I clinical trials evaluating single and multiple doses of NGX267 given to healthy adults. In March 2008, we initiated a Phase II clinical trial in patients to evaluate NGX267 for the treatment of xerostomia, or dry mouth, secondary to Sjogren's syndrome and expect to release results of this trial by the end of 2008. Additionally, based on its mechanism of action, we believe NGX267 may also be developed to treat cognitive disorders such as Alzheimer's disease and cognitive impairment associated with schizophrenia, or CIAS. However, we have no plans to initiate any clinical trials of NGX267 in Alzheimer's disease or CIAS in 2008.

We also have two drug discovery programs, a gamma-secretase modulator, or GSM, program and an Alzheimer's disease genetics program. These programs are focused on discovering and validating novel small molecule compounds and molecular targets for Alzheimer's disease. Our genetics program is undertaken in collaboration with Eisai Co., Ltd., or Eisai.

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### ***Recent Developments***

On August 6, 2008, Neil M. Kurtz, M.D. provided notice of his resignation as our President and Chief Executive Officer and as a member of our Board of Directors effective as of August 31, 2008. Dr. Kurtz resigned to assume the role of President and CEO of a major private healthcare provider.

On August 6, 2008, the Board appointed Evelyn Graham, 60, to the position of acting Chief Executive Officer, effective as of September 1, 2008. Ms. Graham has served as our Chief Operating Officer since October 2006. Ms. Graham joined TPTX, Inc., ( "TPTX" ), our wholly owned subsidiary, in 2004 as Vice President, Development. She was promoted to TPTX's Vice President, Corporate Development in 2005 and Chief Operating Officer in 2006. Prior to joining the company Ms. Graham was Executive Director, Development Operations at Purdue Pharma, a privately-held pharmaceutical company, from 2000 to 2003. From 1998 to 2000, Ms. Graham was Senior Vice President of Business Development of Ingenix Pharmaceutical Services, a health information technology company and a division of UHG, and served as Vice President of Clinical Operations at Worldwide Clinical Trials, a contract research organization, prior to its acquisition by UHG. Previously, Ms. Graham held positions in operations management, healthcare utilization, and organizational planning at Bayer Corporation and Wyeth Pharmaceuticals (formerly Ayerst Laboratories). Ms. Graham holds a B.A. in biology from the University of Delaware and an M.B.A. from the University of Connecticut.

On June 11, 2008, TPTX entered into an agreement to borrow \$3.6 million (the "Loan") pursuant to a Loan and Security Agreement (the "Agreement") with Comerica Bank (the "Bank"). The Loan is secured by a security interest in substantially all of our assets granted pursuant to a Third Party Security Agreement between us and the Bank. The collateral under the Third Party Security Agreement includes our rights to payment arising from the sale, license or other disposition of our intellectual property and to the underlying intellectual property only to the extent necessary to enforce the security interest in such payments. Pursuant to the terms of the Agreement, we also executed an Unconditional Guaranty of TPTX's obligations under which we irrevocably guaranteed the prompt and complete payment of all amounts that TPTX owes to the Bank and performance by TPTX of the Agreement and any other agreements between TPTX and the Bank. The outstanding principal under the Loan will bear interest at a rate equal to 1.00% above the Bank's prime rate and will mature on June 11, 2011. The Loan is to be repaid in 30 equal monthly installments of principal and interest, with interest-only payments payable during the period July through December 2008 and principal and interest payments beginning in January 2009.

In connection with the Agreement, we issued to Bank a warrant to purchase 78,832 shares of our common stock at a price per share of \$1.37. The warrant is exercisable at any time prior to its expiration on June 11, 2013.

On June 12, 2008 we repaid the outstanding balance of \$3.0 million under our Loan And Security Agreement dated September 27, 2005 with Oxford Finance Corporation and Silicon Valley Bank (the "Prior Agreement"). The Prior Agreement and all instruments and documents related thereto (excluding warrants issued in connection with the Prior Agreement) terminated on June 12, 2008, including without limitation, the termination of all security interests, liens and encumbrances, in connection with the Prior Agreement.

### **Financial Overview**

We have incurred net losses since inception as we have devoted substantially all of our resources to research and development, including early-stage clinical trials. As of June 30, 2008, our accumulated deficit was \$107.7 million. We expect to incur substantial and increasing losses for the next several years as we continue to expend substantial resources seeking to successfully research, develop, manufacture, obtain regulatory approval for, market and sell our product candidates. We expect that in the near term, we will incur substantial losses relating primarily to costs and expenses in our efforts to advance the development of tezampanel, NGX426 and NGX267.

We have not generated any revenue from product sales since inception and do not expect to generate any revenue from product sales for the next several years. Because our product candidates are at an early stage of clinical and preclinical development and the outcome of these efforts is uncertain, we cannot estimate the actual amounts necessary to successfully complete the development and commercialization of our product candidates or whether, or when, we may achieve profitability.

We believe that our available cash and cash equivalents at June 30, 2008 will provide sufficient funds to enable us to meet our on-going working capital requirements at least through December 31, 2008. We will need to secure additional funding in the near term to meet working capital requirements in 2009, either through equity financings, strategic collaborations or similar agreements.

### ***Revenue***

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All of our revenue to date has been derived from license and option fees and research funding from our strategic alliance agreements. We will continue to seek partners for some or all of our product candidates and drug discovery programs. In the future, we will seek to generate revenue from some or all of the following sources:

license and option fees from partners;

research funding from partners;

milestone payments from partners;

royalties from partners; and

product sales.

We expect that any revenue we generate will fluctuate from quarter to quarter as a result of the timing and amount of payments received under our strategic alliance agreements, and the amount and timing of payments we receive upon the sale of our products, to the extent any are successfully commercialized. If we fail to complete the development of our product candidates in a timely manner or obtain regulatory approval, our ability to generate future revenue, and our financial condition and results of operations, would be materially adversely affected.

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### ***Research and Development Expense***

Since inception, we have focused on discovery and development of novel small molecule compounds to treat a number of acute and chronic diseases and disorders. We are currently developing three product candidates, all of which are in clinical trials:

Tezampanel, for the treatment of migraine, has been studied in three Phase I clinical trials and six Phase II clinical trials;

NGX426 has been studied in one Phase I clinical trial and is being studied in two on-going Phase I clinical trials; and

NGX267 has been studied in three Phase I clinical trials and is being studied in an on-going Phase II clinical trial for the treatment of xerostomia.

We expense research and development costs as incurred. Research and development expense consists of expenses incurred in identifying, researching, developing and testing product candidates. These expenses primarily consist of the following:

compensation of personnel and consultants associated with research and development activities;

fees paid to contract research organizations and professional service providers for independent monitoring analysis and regulatory services for our clinical trials;

laboratory supplies and materials;

manufacturing of product candidates for use in our preclinical testing and clinical trials;

preclinical studies;

depreciation of equipment; and

allocated costs of facilities and infrastructure.

Because of the risks inherent in research and development, we cannot reasonably estimate or know the nature, timing and estimated costs of the efforts necessary to complete the development of our programs, the anticipated completion dates of these programs, or the period in which material net cash inflows are expected to commence, if at all, from the programs described above and any potential future product candidates. If either we or any of our partners fail to complete any stage of the development of any potential products in a timely manner, it could have a material adverse effect on our operations, financial position and liquidity.

### ***General and Administrative Expense***

General and administrative expense consists primarily of salaries and other related costs for personnel in executive, finance, accounting, business development, information technology and human resource functions. Other costs include facility costs not otherwise included in research and development expense and professional fees for legal and accounting services.

### ***Results of Operations***

***Fluctuations in Operating Results***

Our results of operations have fluctuated significantly from period to period in the past and are likely to continue to do so in the future. We anticipate that our quarterly and annual results of operations will be affected for the foreseeable future by several factors, including the timing and amount of payments received pursuant to our current research agreements and future strategic alliance agreements, as well as the progress and timing of expenditures related to our development and discovery efforts. Due to these fluctuations, we believe that the period-to-period comparisons of our operating results are not a good indication of our future performance.

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### Comparison of the Three Months Ended June 30, 2008 and 2007

The following table summarizes the significant components of our results of operations for the three months ended June 30, 2008 and 2007, in thousands, together with the change in such items in dollars and as a percentage.

|                                    | For the Three Months Ended June 30, |          |            |          |
|------------------------------------|-------------------------------------|----------|------------|----------|
|                                    | 2008                                | 2007     | \$ Change  | % Change |
| Revenue                            | \$ 1,212                            | \$ 2,463 | \$ (1,251) | (51)%    |
| Research and development expense   | 5,491                               | 7,052    | (1,561)    | (22)%    |
| General and administrative expense | 1,751                               | 1,463    | 288        | 20%      |
| Interest income                    | 113                                 | 587      | (474)      | (81)%    |
| Interest expense                   | 110                                 | 216      | (106)      | (49)%    |

*Revenue.* Revenue decreased to \$1.2 million for the three months ended June 30, 2008 from \$2.5 million for the same period in 2007. The decrease of \$1.3 million was due to the conclusion of our discovery-phase GSM collaboration with Eisai in February 2008. In connection with this collaboration, we recognized no revenue for the quarter ended June 30, 2008, compared to three months of revenue recognized during the quarter ended June 30, 2007.

*Research and development expense.* Research and development expense decreased to \$5.5 million for the three months ended June 30, 2008 from \$7.1 million for the same period in 2007. The \$1.6 million decrease was attributable to a \$0.9 million decrease in expense for our development programs and a \$0.7 million decrease in expense for our discovery programs.

The decrease in our development program expense was primarily due to a decrease in clinical development activities for tezampanel for the three months ended June 30, 2008 compared to the three months ended June 30, 2007.

The decrease in expense for our discovery programs was primarily due to the conclusion of our discovery-phase GSM collaboration with Eisai in February 2008. Specifically, salaries and benefits expense and lab supplies expense were lower due to the conclusion of this collaboration.

*General and administrative expense.* General and administrative expense increased to \$1.8 million for the three months ended June 30, 2008 compared to \$1.5 million for the same period in 2007. The \$0.3 million increase was due to increased professional services costs for the quarter ended June 30, 2008 compared to the quarter ended June 30, 2007.

*Interest income.* Interest income decreased to \$113,000 for the three months ended June 30, 2008 from \$587,000 for the same period in 2007. The decrease of \$474,000 was due to a lower average cash and cash equivalents balance during the second quarter of 2008 compared to the second quarter of 2007.

*Interest expense.* Interest expense decreased to \$110,000 for the three months ended June 30, 2008 from \$216,000 for the same period in 2007. The \$106,000 decrease is attributable to a lower average debt balance during the second quarter of 2008 compared to the second quarter of 2007.

### Comparison of the Six Months Ended June 30, 2008 and 2007

The following table summarizes the significant components of our results of operations for the six months ended June 30, 2008 and 2007, in thousands, together with the change in such items in dollars and as a percentage.

|                                    | For the Six Months Ended June 30, |          |            |          |
|------------------------------------|-----------------------------------|----------|------------|----------|
|                                    | 2008                              | 2007     | \$ Change  | % Change |
| Revenue                            | \$ 3,258                          | \$ 4,925 | \$ (1,667) | (34)%    |
| Research and development expense   | 10,751                            | 12,229   | (1,478)    | (12)%    |
| General and administrative expense | 3,199                             | 2,858    | 341        | 12%      |
| Interest income                    | 330                               | 1,195    | (865)      | (72)%    |
| Interest expense                   | 257                               | 453      | (196)      | (43)%    |

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*Revenue.* Revenue decreased to \$3.3 million for the six months ended June 30, 2008 from \$4.9 million for the same period in 2007. The decrease of \$1.6 million was due to the conclusion of our discovery-phase GSM collaboration with Eisai in February 2008. During 2008 in connection with this collaboration, we recognized revenue for two of the six months ended June 30, 2008; during 2007 we recognized revenue for this collaboration for each of the six months ended June 30, 2007.

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*Research and development expense.* Research and development expense decreased to \$10.8 million for the six months ended June 30, 2008 from \$12.2 million for the same period in 2007. The \$1.5 million decrease was attributable to a decrease in expense for our development programs of \$0.9 million and a decrease in expense for our discovery programs of \$0.6 million.

The decrease in our development program expense was primarily due to a decrease in clinical development activities for tezampanel for the six months ended June 30, 2008 compared to the six months ended June 30, 2007.

The decrease in expense for our discovery programs was primarily due to the conclusion of our discovery-phase GSM collaboration with Eisai in February 2008. Specifically, salaries and benefits expense and lab supplies expense were lower during the six months ended June 30, 2008 compared to the six months ended June 30, 2007 due to the conclusion of this collaboration.

*General and administrative expense.* General and administrative expense increased to \$3.2 million for the six months ended June 30, 2008 compared to \$2.9 million for the same period in 2007. The \$0.3 million increase was due to an increase in professional services expense and stock based compensation expense for the six months ended June 30, 2008 compared to the six months ended June 30, 2007.

*Interest income.* Interest income decreased to \$0.3 million for the six months ended June 30, 2008 from \$1.2 million for the same period in 2007. The decrease of \$0.9 million was due to a lower average cash and cash equivalents balance during the six months ended June 30, 2008 compared to the six months ended June 30, 2007.

*Interest expense.* Interest expense decreased to \$257,000 for the six months ended June 30, 2008 from \$453,000 for the same period in 2007. The \$196,000 decrease is attributable to a lower average debt balance during the six months ended June 30, 2008 compared to the six months ended June 30, 2007.

## **Liquidity and Capital Resources**

Since inception we have funded our operations primarily through sales of our equity securities, payments under our research agreements, debt financings and interest income. Through June 30, 2008, we had received approximately \$67.5 million in net proceeds from the sale of equity securities, \$45.2 million in payments under our research agreements, \$22.4 million from debt issuances, and \$5.7 million in interest income. In addition, as a result of a business combination we completed in October 2006, we received \$46.5 million of cash.

At June 30, 2008, we had cash and cash equivalents of \$20.2 million as compared to \$32.5 million at December 31, 2007. The cash balance at June 30, 2008 is \$12.3 million lower than the balance at December 31, 2007 due largely to the operating loss for the six months ended June 30, 2008, repayments of debt, offset by proceeds from research funding payments and the June 2008 issuance of debt.

We believe we have sufficient funds to enable us to meet our ongoing working capital requirements through at least December 31, 2008. We will need to secure additional funding in the near term to meet working capital requirements in 2009, either through equity financings, strategic collaborations or similar agreements. For a further discussion of the risks related to the availability of cash to fund our future operations, please see Risk Factors.

We expect to continue to fund our operations with existing cash resources that were primarily generated from equity financings, cash payments under our research agreements, and debt financing arrangements until we can generate significant cash from our operations. In addition, we may finance future cash needs through the sale of equity securities, entering into strategic collaboration agreements and debt financing. However, we may not be successful in entering into strategic collaboration agreements, or in receiving research funding under current agreements or milestone or royalty payments under future agreements. In addition, we cannot be sure that our existing funds will be adequate or that additional financing will be available when needed or that, if available, financing will be obtained on terms favorable to us or our stockholders. Having insufficient funds may require us to delay, scale back or eliminate some or all of our research or development programs or to relinquish greater or all rights to product candidates at an earlier stage of development or on less favorable terms than we would otherwise choose. Failure to obtain adequate financing also may adversely affect our ability to operate as a going concern.

If we raise additional capital by issuing equity securities, our existing stockholders' ownership will be diluted. Any debt financing we enter into may involve covenants that restrict our operations. These restrictive covenants may include limitations on additional borrowing, specific restrictions on the use of our assets as well as prohibitions on our ability to create liens, pay dividends, redeem our stock or make investments. In addition, if we raise additional funds through collaboration and licensing arrangements, we may be required to relinquish potentially valuable rights to our product candidates or proprietary technologies, or grant licenses on terms that are not favorable to us.



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### **Off-Balance Sheet Arrangements**

We do not have any off-balance sheet arrangements.

### **Critical Accounting Policies and Estimates**

Our discussion and analysis of our financial condition and results of operations are based on our financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States, or GAAP. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting periods. We review our estimates on an ongoing basis, including those related to revenue, accrued expenses and stock-based compensation. We base our estimates on historical experience, known trends and events, and various other factors that we believe to be reasonable under the circumstances, the results of which form our basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

Our management believes the following accounting policies and estimates are most critical to aid you in understanding and evaluating our reported financial results.

#### ***Revenue Recognition***

We recognize revenue in accordance with the SEC's Staff Accounting Bulletin, or SAB, No. 104, *Revenue Recognition*, and Emerging Issues Task Force, or EITF, No. 00-21, *Revenue Arrangements with Multiple Deliverables*. To date we have recorded license and option fee revenue and research funding revenue from four research agreements with Eisai. The terms of the agreements typically include up-front payments to us of non-refundable license and/or option fees and, in some cases, payments for research efforts. Future agreements could also include milestone payments and royalty payments.

We recognize revenue from up-front non-refundable license and option fees on a straight-line basis over the contracted or estimated period of performance, which is typically the research term. Amounts received for research funding for a specific number of full-time researchers are recognized as revenue as the services are provided, as long as the amounts received are not refundable regardless of the results of the research project. Milestone payments, if any, will be recognized on achievement of the milestone, unless the amounts received are creditable against royalties or we have ongoing performance obligations. Royalty payments, if any, will be recognized on sale of the related product, provided the royalty amounts are fixed and determinable, and collection of the related receivable is probable.

#### ***Accrued Expenses***

As part of the process of preparing financial statements, we are required to estimate accrued expenses. This process involves identifying services which have been performed on our behalf, and estimating the level of service performed and the associated cost incurred for such service as of each balance sheet date in our financial statements. Examples of services for which we must estimate accrued expenses include contract service fees paid to contract manufacturers in conjunction with the production of clinical drug supplies and to contract research organizations in connection with preclinical studies and clinical trials. In connection with such service fees, our estimates are most affected by our understanding of the status and timing of services provided. The majority of our service providers invoice us in arrears for services performed. In the event that we do not identify certain costs which have been incurred, or we under- or over-estimate the level of services performed or the costs of such services in a given period, our reported expenses for such period would be too low or too high. The date on which certain services commence, the level of services performed on or before a given date, and the cost of such services are often determined based on subjective judgments. We make these judgments based upon the facts and circumstances known to us. To date, we have been able to reasonably estimate these costs; however, as we increase the level of services performed on our behalf, it will become increasingly more difficult for us to estimate these costs, which could result in our reported expenses for future periods being too high or too low.

#### ***Stock-Based Compensation***

We estimate the fair value of stock options granted using the Black-Scholes option valuation model and the fair value of restricted stock units granted using a Monte-Carlo simulation option-pricing model. The fair values of stock option and restricted stock unit awards are amortized over the requisite service periods of the awards. Both the Black-Scholes option valuation model and the Monte-Carlo simulation option-pricing model require the input of highly subjective assumptions, including the option or restricted stock unit's expected life, price volatility of the underlying stock, risk free interest rate and expected dividend rate. As stock-based compensation expense related to stock options is based on awards ultimately expected to vest, the stock-based compensation expense has been reduced for estimated forfeitures of stock options. Statement

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of Financial Accounting Standards, or SFAS, No. 123R, *Share-*

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*Based Payment*, requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Stock option forfeitures were estimated based on historical experience. We may elect to use different assumptions under both the Black-Scholes option valuation model or the Monte-Carlo simulation option-pricing model in the future, which could materially affect our net income or loss and net income or loss per share.

### **Item 3. Quantitative and Qualitative Disclosures About Market Risk**

We are exposed to market risk related to changes in interest rates. Our current investment policy is to maintain an investment portfolio consisting mainly of U.S. money market and high-grade corporate securities, directly or through managed funds, with maturities of one and a half years or less. We do not enter into investments for trading or speculative purposes. Our cash is deposited in and invested through highly rated financial institutions in North America. Our marketable securities are subject to interest rate risk and will fall in value if market interest rates increase. If market interest rates were to increase immediately and uniformly by 10% from levels at June 30, 2008 and 2007, we estimate that the fair value of our investment portfolio would decline by an immaterial amount. We have the ability to hold our fixed income investments until maturity therefore we would not expect our operating results or cash flows to be affected to any significant degree by the effect of a change in market interest rates on its investments.

We have foreign currency accounts that are exposed to currency exchange risk. The functional currency of our European subsidiary, which is based in Belgium, is the local currency. Accordingly, the accounts of this subsidiary are translated from the local currency to the U.S. dollar using the current exchange rate at the balance sheet date for the balance sheet accounts, and using the average exchange rate during the period for revenue and expense accounts. The effects of translation are recorded in accumulated other comprehensive loss as a separate component of stockholders' deficit. Because we did not have any transactions denominated in foreign currencies during the six months ended June 30, 2008 and 2007, we did not record exchange gains and losses in operations for those periods. If the foreign currency rates were to fluctuate by 10% from exchange rates at June 30, 2008 and 2007, the effect on our financial statements would not be material. However, there can be no assurance there will be not be a material impact in the future.

### **Item 4T. Controls and Procedures.**

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our Exchange Act reports 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 principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure.

Under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, we conducted an evaluation of our disclosure controls and procedures, as such term is defined under Rule 13a-15(e) promulgated under the Exchange Act. Based on this evaluation, our principal executive officer and our principal financial officer concluded that our disclosure controls and procedures were designed and operating effectively as of the end of the period covered by this Quarterly Report on Form 10-Q.

Our management, including our principal executive officer and our principal financial officer, does not expect that our disclosure controls and procedures or our internal controls will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected.

### **Changes in Internal Control Over Financial Reporting**

There has been no change in our internal control over financial reporting during the quarter ended June 30, 2008 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

## **PART II. OTHER INFORMATION**

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### **Item 1. Legal Proceedings**

Several lawsuits were filed against us in February 2005 in the U.S. District Court for the Southern District of New York asserting claims under Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, as amended, or the Exchange Act and Rule 10b-5 thereunder on behalf of a class of purchasers of our common stock during the period from June 26, 2003, through and including February 4, 2005, referred to as the class period. Dr. Marvin S. Hausman, M.D., a former director and our former Chief Executive Officer, and Dr. Gosse B. Bruinsma, M.D., also a former director and our former Chief Executive Officer, were also named as defendants in the lawsuits. These actions were consolidated into a single class action lawsuit in January 2006. On April 10, 2006, the

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class action plaintiffs filed an amended consolidated complaint. We filed our answer to that complaint on May 26, 2006. Our motion to dismiss the consolidated amended complaint was filed on May 26, 2006 and was submitted to the court for a decision in September 2006. The motion to dismiss is pending.

The class action plaintiffs allege generally that our Phase III phenserine development program was subject to alleged errors of design and execution which resulted in the failure of the first Phase III phenserine trial to show efficacy. Plaintiffs allege the defendants' failure to disclose the alleged defects resulted in the artificial inflation of the price of our shares during the class period.

There is also a shareholder derivative suit pending in New York Supreme Court, New York County, against our current and former directors and officers. The named defendants are Marvin S. Hausman, M.D., Gosse B. Bruinsma, M.D., S. Colin Neill, Louis G. Cornacchia, Steven H. Ferris, Ph.D., Gerard J. Vlak, Ralph Snyderman, M.D. and Michael A. Griffith. Defendants are alleged to have breached their duties to the company and misused inside information regarding clinical trials of phenserine. This action has been stayed pending further developments in the federal class action.

The complaints seek unspecified damages. We believe the complaints are without merit and we intend to defend these lawsuits vigorously. However, we cannot make assurances that we will prevail in these actions, and, if the outcome is unfavorable to us, our reputation, operations and share price could be adversely affected.

### **Item 1A. Risk Factors**

*You should consider carefully the following information about the risks described below, together with the other information contained in this quarterly report on Form 10-Q and in our other filings with the Securities and Exchange Commission, before you decide to buy or maintain an investment in our common stock. We believe the risks described below are the risks that are material to us as of the date of this quarterly report. If any of the following risks actually occur, our business financial condition, results of operations and future growth prospects would likely be materially and adversely affected. In these circumstances, the market price of our common stock could decline, and you may lose all or part of the money you paid to buy our common stock. The risk factors set forth below with an asterisk (\*) next to the title are new risk factors or risk factors containing changes, including any material changes from the risk factors set forth in our annual report on Form 10-K for the fiscal year ended December 31, 2007, as filed with the Securities and Exchange Commission on March 31, 2008.*

#### **Risks Related to Our Business**

***\*We expect to continue to incur net operating losses for the next several years and may never achieve profitability.***

We have incurred net operating losses every year since our inception. As of June 30, 2008, we had an accumulated deficit of approximately \$107.7 million. Over the next several years we expect a significant increase in our operating losses as we conduct additional discovery, development, clinical testing and regulatory compliance activities. All of our revenue to date has been payments received in connection with our collaboration and licensing agreements. We cannot be certain that we will generate additional revenue through licensing activities or that we will receive any of the milestone or royalty payments associated with our current licensing agreements. Given the risks associated with discovery, development, clinical testing, manufacturing and marketing of drug products, we may never be successful in commercializing a drug product that will enable us to be profitable. Our ability to generate significant continuing revenue depends on a number of factors, including:

successful completion of on-going and future clinical trials for our product candidates;

achievement of regulatory approval for our product candidates;

successful completion of current and future strategic collaborations; and

successful manufacturing, sales, distribution and marketing of our products.

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We do not anticipate that we will generate significant continuing revenue for several years, if at all. Even if we do achieve profitability, we may not be able to sustain or increase profitability.

***We will need substantial additional funding and may be unable to raise capital when needed, which would force us to delay, reduce or eliminate our discovery and development programs or commercialization efforts.***

We will need to raise substantial additional capital in the future and additional funding requirements will depend on, and could increase significantly as a result of, many factors, including:

the rate of progress and cost of clinical trials;

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the scope of our clinical trials and other discovery and development activities;

the prioritization and number of clinical development and discovery programs we pursue;

the terms and timing of any collaborative, licensing and other arrangements that we may establish;

the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;

the costs and timing of regulatory approvals;

the costs of goods and manufacturing expenses; and

the costs of establishing or contracting for sales and marketing capabilities.

We do not anticipate that we will generate significant continuing revenue for several years, if at all. Until we can generate significant continuing revenue, if ever, we expect to satisfy our future cash needs through public or private equity offerings, debt financings or corporate collaboration and licensing arrangements, as well as through interest income earned on cash balances. We cannot be certain that additional funding will be available on acceptable terms, or at all. If adequate funds are not available, we may be required to delay, reduce the scope of, or eliminate one or more of our discovery and development programs or commercialization efforts.

***\*We are currently not in compliance with Nasdaq rules regarding the minimum bid price and are at risk of being delisted from the Nasdaq Global Market, which may subject us to the SEC's penny stock rules and decrease the liquidity of our common stock.***

We are currently not in compliance with Nasdaq rules for continued listing on the Nasdaq Global Market and are at risk of being delisted, which may subject us to the SEC's penny stock rules and decrease the liquidity of our common stock. Our common stock is currently listed on the Nasdaq Global Market. In order to maintain listing on the Nasdaq Global Market, we must continue to meet certain financial and corporate governance qualifications. We have failed to meet the \$1.00 per share minimum closing bid price for 14 consecutive business days. If we were to fail to meet the \$1.00 per share minimum closing bid price for 30 consecutive business days we will no longer be in compliance with Nasdaq Marketplace Rule 4450(a)(5) and we will need to take steps to achieve and sustain compliance with all of the Nasdaq Global Market's continued listing requirements with 180 days after receiving a notice of delisting. If at the conclusion of that 180-day period, we have not achieved compliance, we expect that we would be delisted from the Nasdaq Global Market. Following any such delisting, our common stock may be traded over-the-counter on the OTC Bulletin Board or in the pink sheets. These alternative markets, however, are generally considered to be less efficient than, and not as broad as, the Nasdaq Global Market. Many OTC stocks trade less frequently and in smaller volumes than securities traded on the Nasdaq markets, which could have a material adverse effect on the liquidity of our common stock. If our common stock is delisted from the Nasdaq Global Market, there may be a limited market for our stock, trading in our stock may become more difficult and our share price could decrease even further. In addition, if our common stock is delisted, our ability to raise additional capital may be impaired.

In addition, our common stock may become subject to penny stock rules. The SEC generally defines "penny stock" as an equity security that has a market price of less than \$5.00 per share, subject to certain exceptions. We are not currently subject to the penny stock rules because our common stock qualifies for an exception to the SEC's penny stock rules for companies that have an equity security that is quoted on the Nasdaq Stock Market. However, if we were delisted, our common stock would become subject to the penny stock rules, which impose additional sales practice requirements on broker-dealers who sell our common stock. If our common stock were considered penny stock, the ability of broker-dealers to sell our common stock and the ability of our stockholders to sell their shares in the secondary market would be limited and, as a result, the market liquidity for our common stock would be adversely affected. We cannot assure you that trading in our securities will not be subject to these or other regulations in the future.

***All of our product candidates are at an early stage of development. We cannot be certain that any of our product candidates will be successfully developed, receive regulatory approval, or be commercialized.***

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Our product candidates are at an early stage of development and we do not have any products that are commercially available. Our product candidates, ionotropic glutamate receptor antagonists tezampanel and NGX426 and muscarinic receptor agonist NGX267, are currently in clinical development. We will need to perform additional development work and conduct further clinical trials for all of our product candidates before we can seek the regulatory approvals necessary to begin commercial sales.

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Success in preclinical testing and early clinical trials does not mean that later clinical trials will be successful. Companies frequently suffer significant setbacks in later stage clinical trials, even after earlier clinical trials have shown promising results. In future clinical trials with larger or somewhat different populations, results from early clinical trials may not be reproduced and analysis of new or additional data may not demonstrate sufficient safety and efficacy to support regulatory approval of a product candidate.

Additionally, preclinical testing and clinical trials are expensive, can take many years, and have an uncertain outcome. Product candidates may not be successful in clinical trials for a number of reasons, including, but not limited to, the failure of a product candidate to be safe and efficacious, the results of later stage clinical trials not confirming earlier clinical results, or clinical trial results not being acceptable to the FDA or other regulatory agencies.

There is no certainty that the safety and efficacy results of our Phase IIb clinical trial for tezampanel in acute migraine announced in October 2007 are predictive of results in subsequent trials of tezampanel or are meaningful indicators of the efficacy of tezampanel. We will be required to perform additional clinical testing in order to obtain regulatory approval of tezampanel and the results of such additional clinical testing may not replicate what has been demonstrated to date regarding the safety and efficacy of tezampanel. Additionally, further testing of tezampanel may not result in data sufficient to support regulatory approval.

We do not anticipate that any of our current product candidates will be eligible to receive regulatory approval and begin commercialization for a number of years, if at all. Even if we were to ultimately receive regulatory approval for one or more of our product candidates, we may be unable to successfully commercialize them for a variety of reasons including:

the availability of alternative treatments;

the product not being cost effective to manufacture and sell;

limited acceptance in the marketplace; and

the effect of competition with other marketed products.

The success of our product candidates may also be limited by the incidence and severity of any adverse events or undesirable side effects. Additionally, any regulatory approval to market a product may be subject to the imposition by such regulatory agency of limitations on the indicated uses. These limitations may reduce the size of the market for the product. If we fail to commercialize one or more of our current product candidates, our business, results of operations, financial condition, and prospects for future growth will be materially and adversely affected.

***Delays in the commencement or completion of clinical testing of our product candidates could result in increased costs to us and delay our ability to generate significant revenues.***

We cannot predict whether we will encounter problems with any of our planned clinical trials that will cause us or regulatory authorities to delay or suspend our clinical trials, or delay the analysis of data from such clinical trials. Any of the following factors could delay the clinical development of our product candidates:

on-going discussions with the FDA or comparable foreign authorities regarding the scope or design of one or more clinical trials;

delays in receiving, or the inability to obtain, required approvals from institutional review boards or other reviewing entities at clinical trial sites selected for participation in a clinical trial;

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delays or slower than anticipated enrollment of participants into clinical trials;

lower than anticipated retention rate of participants in clinical trials;

need to repeat clinical trials as a result of inconclusive or negative results or unforeseen complications in testing;

inadequate supply or deficient quality of product candidate materials or other materials necessary to conduct our clinical trials;

unfavorable FDA inspection and review of a clinical trial site or records of any clinical or preclinical investigation;

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serious, unexpected adverse events or undesirable side effects experienced by participants in the clinical trials that delay or preclude regulatory approval or limit the commercial use or market acceptance if approved;

findings that the clinical trial participants are being exposed to unacceptable health risks;

placement by the FDA of a clinical hold on a clinical trial;

restrictions on or post-approval commitments with regard to any regulatory approval we ultimately obtain that renders a product candidate not commercially viable; and

unanticipated cost overruns in preclinical studies and clinical trials.

In addition, once a clinical trial has started, it may be suspended or terminated by us or the FDA or other regulatory authorities due to a number of factors, including:

failure to conduct the clinical trial in accordance with regulatory requirements;

inspection of the clinical trial operations or clinical trial site by the FDA or other regulatory authorities resulting in the imposition of a clinical hold;

negative clinical trial results;

adverse events or negative side-effects experienced by the clinical trial participants; or

lack of adequate funding to continue the clinical trial.

Before we can demonstrate adequate safety and efficacy we will need to reach agreement with the FDA on the endpoints for some of our Phase III clinical trials where endpoints have not been validated and we may work with the FDA to potentially design and validate one or more endpoints. The FDA may not accept any or all of the endpoints and they may ultimately decide that the endpoints are inadequate to demonstrate the safety and efficacy levels required for regulatory approval. Our failure to adequately demonstrate the safety and efficacy of our product candidates would jeopardize our ability to achieve regulatory approval for, and ultimately to commercialize, the product candidates.

Clinical trials require sufficient participant enrollment, which is a function of many factors, including the size of the target population, the nature of the clinical trial protocol, the proximity of participants to clinical trial sites, the availability of effective treatments for the relevant disorder or disease, the eligibility criteria for our clinical trials and the number of competing clinical trials. Delays in enrollment can result in increased costs and longer development times. Failure to enroll participants in our clinical trials could delay the completion of the clinical trials beyond current expectations. In addition, the FDA could require us to conduct clinical trials with a larger number of participants than we may project for any of our product candidates. As a result of these factors, we may not be able to enroll a sufficient number of participants in a timely or cost-effective manner.

Additionally, enrolled participants may drop out of clinical trials, which could impair the validity or statistical significance of the clinical trials. A number of factors can lead participants in a clinical trial to discontinue participating in the clinical trial, including, but not limited to: the inclusion of a placebo arm in the clinical trial; possible lack of effect of the product candidate being tested at one or more of the dose levels being tested; adverse side effects experienced by the participant, whether or not related to the product candidate; and the availability of alternative treatment options.

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We, the FDA or other applicable regulatory authorities may suspend clinical trials of a product candidate at any time if we or they believe the participants in such clinical trials, or in independent third-party clinical trials for product candidates based on similar technologies, are being exposed to unacceptable health risks or for other reasons. In addition, it is impossible to predict whether legislative changes will be enacted, or whether FDA regulations, guidance or interpretations will be changed, or what the impact of such changes, if any, may be.

If we experience any such problems, we may not have the financial resources to continue development of the product candidate that is affected or the development of any of our other product candidates. If we experience significant delays in the commencement or completion of clinical testing, financial results and the commercial prospects for the product candidates will be harmed and costs will increase. Additionally, any significant delays in the commencement or completion of clinical testing will delay our ability to generate significant revenue.

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***We rely on third parties to assist us in conducting clinical trials. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may not be able to obtain regulatory approval for or commercialize our product candidates.***

We rely on, and intend to continue to rely on, third parties, such as contract research organizations, medical institutions, clinical investigators and contract laboratories, to conduct clinical trials of our product candidates. Our reliance on these third parties for development activities reduces our control over these activities. If these third parties do not successfully carry out their contractual duties or obligations or meet expected deadlines, or if the quality or accuracy of the clinical data they obtain is compromised due to the failure to adhere to our clinical protocols or for other reasons, our clinical trials may be extended, delayed or terminated. If these third parties do not successfully carry out their contractual duties or meet expected deadlines, we may be required to replace them. Although we believe there are a number of third party contractors we could engage to continue these activities, replacing a third party contractor may result in a delay of the affected trial. Accordingly, we may not be able to obtain regulatory approval for or successfully commercialize our product candidates.

***We have licensed rights to product candidates tezampanel and NGX426 from Eli Lilly and Company, or Eli Lilly. Eli Lilly has rights of termination under the license agreement, which if exercised would adversely affect our business.***

In April 2003, we entered into an agreement with Eli Lilly to obtain an exclusive license from Eli Lilly to their ionotropic glutamate receptor antagonist assets tezampanel and NGX426. Pursuant to the license agreement we have obligations to make payments to Eli Lilly under the agreement and to use commercially reasonable efforts to develop and commercialize the product candidates, including achievement of specified development events within specified timeframes. Eli Lilly may terminate the agreement for uncured material breach of the agreement by us, including any breach of our development and commercialization obligations. If Eli Lilly were to terminate the agreement, we would lose rights to the ionotropic glutamate receptor antagonist product candidates, and our business would be adversely affected.

***We have licensed rights to product candidates NGX267 and NGX292 from Life Science Research Israel, or LSRI. LSRI has rights of termination under the license agreement, which if exercised would adversely affect our business.***

In May 2004, we entered into an agreement with LSRI to obtain an exclusive license from LSRI to their muscarinic receptor agonist assets NGX267 and NGX292. We have obligations to make payments to LSRI under the agreement and to use commercially reasonable efforts to develop and commercialize the product candidates subject to the agreement, including achievement of specified development events within specified timeframes. LSRI may terminate the agreement for uncured material breach of the agreement by us, including any breach of our development and commercialization obligations. If LSRI were to terminate the agreement, we would lose rights to the muscarinic receptor agonist product candidates, and our business would be adversely affected.

***We depend on Eisai Co. Ltd., or Eisai, for funding for our Alzheimer's disease genetics discovery program. Eisai has the first right to obtain rights to gene targets resulting from this program, which could delay or limit our ability to develop and commercialize these gene targets.***

In October 2005, we entered into an agreement with Eisai to discover gene targets useful in treating or preventing Alzheimer's disease in humans. This agreement had an initial two-year term which Eisai elected to extend for an additional 12 months. This agreement will conclude on October 1, 2008. We depend upon Eisai to provide funding for the research we conduct under this agreement. If Eisai were to cease funding this program for any reason, we would need to provide our own funding for the program, seek a strategic partner for further work on the program, raise additional funding, or curtail or abandon the program. In connection with the conclusion of our collaboration agreement with Eisai for our GSM program in February 2008, we streamlined our operations by reducing our work force.

During the term of the agreement for our Alzheimer's disease genetics discovery program, Eisai has exclusive first rights of negotiation and refusal with regard to a license, collaboration or other arrangement regarding gene targets discovered and validated in the course of the Alzheimer's disease genetics research program. These rights held by Eisai may delay or limit our ability to enter into a license, collaboration or other arrangement with a third party for any gene targets resulting from the Alzheimer's disease genetic research program.

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***If we fail to enter into and maintain collaborations for our product candidates, we may have to reduce or delay product development or increase expenditures.***

Our strategy for developing, manufacturing, and commercializing potential products includes establishing and maintaining collaborations with pharmaceutical and biotechnology companies to advance some of our programs and share expenditures with partners on those programs. We may not be able to negotiate future collaborations on acceptable terms, if at all. If we are not able to establish and maintain collaborative arrangements, we may have to reduce or delay further development of some programs or undertake the development activities at our own expense. If we elect to increase capital expenditures to fund development programs on our own, we will need to obtain additional capital, which may not be available on acceptable terms or at all. Even if we do succeed in securing such collaborations, we may not be able to maintain them if, for example, objectives under the agreement are not met, the agreement is terminated or not renewed, development or approval of a product candidate is delayed or sales of an approved drug are disappointing. Furthermore, any delay in entering into collaborations could delay the development and commercialization of our product candidates and reduce their competitiveness, even if they reach the market. Any such delay related to our collaborations could adversely affect our business.

***If our strategic partners do not devote adequate resources to the development and commercialization of our product candidates, we may not be able to commercialize our products and achieve revenues.***

We may enter into collaborations with other strategic partners with respect to our product candidates. If we enter into any such collaborations, we may have limited or no control over the amount and timing of resources that our partners dedicate to the development of our product candidates. Our ability to commercialize products we develop with our partners and generate royalties from product sales will depend on the partner's ability to assist us in establishing the safety and efficacy of our product candidates, obtaining regulatory approvals and achieving market acceptance of products. Our partners may elect to delay or terminate development of a product candidate, independently develop products that could compete with our products, or not commit sufficient resources to the marketing and distribution of products under the collaboration. If our partners fail to perform as expected under the collaborative agreements, our potential for revenue from the related product candidates will be dramatically reduced. In addition, revenue from our future collaborations may consist of contingent payments, such as payments for achieving development and commercialization milestones and royalties payable on sales of any successfully developed drugs. The milestone, royalty or other revenue that we may receive under these collaborations will depend upon both our ability and our partner's ability to successfully develop, introduce, market and sell new products. In some cases, we will not be involved in these processes and, accordingly, will depend entirely on our partners.

***We do not have internal manufacturing capabilities. If we fail to develop and maintain supply relationships with collaborators or other third party manufacturers, we may be unable to develop or commercialize our products.***

Our ability to develop and commercialize our products depends in part on our ability to manufacture, or arrange for future collaborators or other third parties to manufacture, our products at a competitive cost, in accordance with regulatory requirements and in sufficient quantities for clinical testing and eventual commercialization. None of our current product candidates have been manufactured on a commercial scale. We and our third-party manufacturers may encounter difficulties with the small- and large-scale formulation and manufacturing processes required to manufacture our product candidates, resulting in delays in clinical trials and regulatory submissions, in the commercialization of product candidates or, if any product candidate is approved, in the recall or withdrawal of the product from the market. Our inability to enter into or maintain agreements with capable third-party manufacturers on acceptable terms could delay or prevent the commercialization of our products, which would adversely affect our ability to generate revenue and could prevent us from achieving profitability.

We believe that we have sufficient supplies of tezampanel, NGX426 and NGX267 for our current clinical trials. We will need to identify and reach agreement with third parties for the supply of our product candidates for future clinical trials. We do not have long-term supply agreements with third parties, and we may not be able to enter into supply agreements with them in a timely manner or on acceptable terms, if at all. These third parties may also be subject to capacity constraints that would cause them to limit the amount of our product candidates they can produce or the chemicals that we can purchase. Any interruption or delay we experience in the supply of our product candidates may impede or delay such product candidates' clinical development and cause us to incur increased expenses associated with identifying and qualifying one or more alternate suppliers.

In addition, we, our future collaborators or other third-party manufacturers of our products must comply with cGMP requirements enforced by the FDA through its facilities inspection program. These requirements include quality control, quality assurance and the maintenance of records and documentation. In addition, product manufacturing facilities in California are subject to licensing requirements of the California Department of Health Services and may be inspected by the California Department of Health Services at any time. We, our collaborators or other third-party manufacturers of our products may be unable to comply with these cGMP requirements and with other FDA, state and foreign regulatory requirements. A failure to comply with these requirements may result in fines and civil penalties, suspension or delay in product approval, product seizure or recall, or withdrawal of product approval.



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***We currently have no marketing or sales staff. If we are unable to enter into or maintain collaborations with marketing partners or if we are unable to develop our own sales and marketing capabilities, we may not be successful in commercializing our potential products and we may be unable to generate significant revenues.***

We may elect to commercialize some of the products we are developing on our own, with or without a partner, where those products can be effectively marketed and sold in concentrated markets that do not require a large sales force to be competitive. We currently have no sales, marketing or distribution capabilities. To be able to commercialize our own products, we will need to establish our own specialized sales force and marketing organization with technical expertise and with supporting distribution capabilities. Developing such an organization is expensive and time consuming and could delay or limit our ability to commercialize products.

To commercialize any product candidate that we decide not to market on our own, we will depend on collaborations with third parties that have established distribution systems and direct sales forces. If we are unable to enter into such collaborations on acceptable terms, we may not be able to successfully commercialize those products.

To the extent that we enter into arrangements with collaborators or other third parties to perform sales and marketing services, our product revenue is likely to be lower than if we directly marketed and sold our product candidates. If we are unable to establish adequate sales and marketing capabilities, independently or with others, we may not be able to generate significant revenue and may not become profitable and the price of our common stock may be negatively affected.

***Tezampanel and NGX426 belong to a new class of compounds. There are no compounds in this class that have received regulatory approval for any indication. Therefore, we do not know whether our product candidates will yield commercially viable products or receive regulatory approval.***

Tezampanel and NGX426 are ionotropic glutamate receptor antagonists of the AMPA and kainite subtype. They are part of a new class of compounds that block the binding of glutamate to AMPA and kainite receptors and, in turn, stop the transmission of pain signals. Tezampanel and NGX426 may represent a novel approach to the treatment of numerous pain and non-pain diseases and disorders. There are currently no approved products that are ionotropic glutamate receptor antagonists of the AMPA and kainite subtype. As a result, we cannot be certain that tezampanel and NGX426 will result in commercially viable drugs.

***\*NGX267 is being developed to treat xerostomia, or dry mouth. There are currently two muscarinic receptor agonists approved to treat xerostomia. We do not know if NGX267 will yield a commercially viable product or receive regulatory approval.***

NGX267 is a muscarinic receptor agonist with functionally specific M1 receptor activity that we are developing for the treatment of xerostomia, or dry mouth. There are currently two muscarinic receptor agonists marketed in the United States for the treatment of xerostomia. We do not know whether or not NGX267 will have any advantages over the currently marketed products or will be safe and efficacious. Failure to demonstrate an advantage over the currently marketed products or a failure to be safe and efficacious will prevent us from commercializing NGX267 or generating significant revenue.

***NGX267 and NGX292 may be developed in the future for Alzheimer's disease modification or CIAS, indications for which there are no products approved by the FDA, and for which no regulatory precedents have been established. Therefore, we do not know whether our product candidates will yield commercially viable products or receive regulatory approval.***

NGX267 and NGX292 are muscarinic receptor agonists with functionally specific M1 receptor activity that we may develop in the future for Alzheimer's disease modification or the treatment of CIAS. There are currently no approved therapies for Alzheimer's disease modification or the treatment of CIAS. Therefore, in order to successfully commercialize NGX267 and NGX292, we will need to agree with the FDA and other applicable regulatory agencies on clinical trial endpoints regarding safety and efficacy. Given the lack of current treatments for each of these indications, we may be unable to agree on the endpoints or successfully complete clinical trials that demonstrate that such endpoints, if agreed to, have been met. Any delay in agreeing to clinical trial endpoints or in achieving those endpoints could delay commercialization thereby damaging our ability to generate significant revenue from NGX267 and NGX292, or prevent us from commercializing NGX267 and NGX292 altogether.

***If our product candidates do not achieve market acceptance among physicians, patients, health care payors and the medical community, they will not be commercially successful and our business will be adversely affected.***

The degree of market acceptance of any of our approved product candidates among physicians, patients, health care payors and the medical community will depend on a number of factors, including:

acceptable evidence of safety and efficacy;

relative convenience and ease of administration;

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the prevalence and severity of any adverse side effects;

availability of alternative treatments;

pricing and cost effectiveness;

effectiveness of sales and marketing strategies; and

ability to obtain sufficient third-party coverage or reimbursement.

If we are unable to achieve market acceptance for our product candidates, then such product candidates will not be commercially successful and our business will be adversely affected.

***If we fail to attract and keep key management and scientific personnel, we may be unable to develop or commercialize our product candidates successfully.***

Our success depends on our continued ability to attract, retain and motivate highly qualified management and scientific personnel. The loss of the services of any principal member of our senior management team could delay or prevent the commercialization of our product candidates. We employ these individuals on an at-will basis and their employment can be terminated by us or them at any time, for any reason and with or without notice, subject to the terms contained in their respective employment agreements and offer letters.

Competition for qualified personnel in the drug development industry is intense. We may not be able to attract and retain quality personnel on acceptable terms given the competition for such personnel among biotechnology, pharmaceutical and other companies.

***Companies and universities that have licensed product candidates to us for research, clinical development and marketing are sophisticated competitors that could develop similar products to compete with our products.***

Licensing our product candidates from other companies, universities or individuals does not always prevent them from developing non-identical but competitive products for their own commercial purposes, nor from pursuing patent protection in areas that are competitive with us. Our partners who created these product candidates are experienced scientists and business people who may continue to do research and development and seek patent protection in the same areas that led to the discovery of the product candidates that they licensed to us. The development and commercialization of successful new drug products from our discovery program is likely to attract additional research by our licensors in addition to other investigators who have experience in drug development. By virtue of the previous research that led to the discovery of the drugs or product candidates that they licensed to us, these companies, universities, or individuals may be able to develop and market competitive products in less time than might be required to develop a product with which they have no prior experience.

***Changes in, or interpretations of, accounting rules and regulations could result in unfavorable accounting charges or require us to change our compensation policies.***

Accounting methods and policies for biopharmaceutical companies, including policies governing revenue recognition, expenses, accounting for stock options and in-process research and development costs are subject to further review, interpretation and guidance from relevant accounting authorities, including the SEC. Changes to, or interpretations of, accounting methods or policies in the future may result in unfavorable accounting charges or may require us to change our compensation policies to avoid such charges.

***Our management will be required to devote substantial time to comply with public company regulations.***

As a public company, we will incur significant legal, accounting and other expenses. In addition, the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and the Nasdaq Global Market, impose various requirements on public companies, including corporate governance practices. Our management and other personnel will have to meet these requirements. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly.

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In addition, the Sarbanes-Oxley Act requires, among other things, that we maintain effective internal controls for financial reporting and disclosure controls and procedures. In particular, we must perform system and process evaluation and testing of our internal controls over financial reporting to allow management to report on the effectiveness of its internal controls over financial reporting, as required by Section 404 of the Sarbanes-Oxley Act. Our compliance with Section 404 will require that we incur substantial accounting and related expense and expend significant management efforts. We will need to hire additional accounting and financial staff to satisfy the on-going requirements of Section 404. Moreover, if we are not able to comply with the requirements of Section 404, or if we or our independent registered public accounting firm identifies deficiencies in our internal controls over financial reporting that are deemed to be material weaknesses, the market price of our stock could decline and we could be subject to sanctions or investigations by the Nasdaq Global Market, SEC or other regulatory authorities.

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***We are a defendant in a class action lawsuit and a stockholder derivative lawsuit which, if determined adversely, could have a material adverse effect on us.***

A class action securities lawsuit and a stockholder derivative lawsuit was filed against us, as described under Part II, Item 1 Legal Proceedings. We are defending against these actions vigorously; however, we do not know what the outcome of these proceedings will be and, if we do not prevail, we may be required to pay substantial damages or settlement amounts. Furthermore, regardless of the outcome, we may incur significant defense costs, and the time and attention of our management may be diverted from normal business operations. If we are ultimately required to pay significant defense costs, damages or settlement amounts, such payments could materially and adversely affect our operations and results. We have purchased liability insurance, however, if any costs or expenses associated with the litigation exceed the insurance coverage, we may be forced to bear some or all of these costs and expenses directly, which could be substantial and may have an adverse effect on our business, financial condition, results of operations and cash flows. In any event, publicity surrounding the lawsuits and/or any outcome unfavorable to us could adversely affect our reputation and stock price. The uncertainty associated with substantial unresolved lawsuits could harm our business, financial condition and reputation.

We have certain obligations to indemnify our officers and directors and to advance expenses to such officers and directors. Although we have purchased liability insurance for our directors and officers, if our insurance carriers should deny coverage, or if the indemnification costs exceed the insurance coverage, we may be forced to bear some or all of these indemnification costs directly, which could be substantial and may have an adverse effect on our business, financial condition, results of operations and cash flows. If the cost of our liability insurance increases significantly, or if this insurance becomes unavailable, we may not be able to maintain or increase our levels of insurance coverage for our directors and officers, which could make it difficult to attract or retain qualified directors and officers.

***\*Fluctuations in currency exchange rates may negatively impact our business.***

We currently have operations in Belgium. Costs resulting from this operation are denominated primarily in Euros, which is the local currency, and are subject to fluctuations in currency exchange rates. Significant fluctuations in the currency exchange rates and general economic conditions in the countries in which we do business could harm our operating results.

***Fluctuations in the quoted price of OXIS commons stock may adversely affect the fair value of our investment in OXIS International and cause variations in our operating results.***

Effective January 1, 2008 we elected to apply the fair value option for our investment in OXIS under SFAS No. 159, *The Fair Value Option for Financial Assets and Liabilities-Including an Amendment of FASB Statement No. 115*. Prior to this election, we accounted for our investment in OXIS under the equity method of accounting following accounting principles bulletin (APB) No. 18. Increases or decreases in the fair value of our investment in OXIS are recorded in the statement of operations as a fair value adjustment in OXIS International, Inc. Historically, OXIS common stock has had limited trading volume and the quoted price can fluctuate from time to time. Fluctuations in the quoted price of OXIS common stock may cause variations in our operating results.

## **Risks Related to Our Intellectual Property**

***Our success depends upon our ability to protect our intellectual property and proprietary technologies.***

Our commercial success depends on obtaining and maintaining patent protection and trade secret protection of our product candidates, proprietary technologies and their uses, as well as successfully defending our patents against third-party challenges. We will only be able to protect our product candidates, proprietary technologies and their uses from unauthorized use by third parties to the extent that valid and enforceable patents or trade secrets cover them.

The patent positions of pharmaceutical and biotechnology companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of claims allowed in biotechnology patents has emerged to date in the U.S. The biotechnology patent situation outside the U.S. is even more uncertain. Changes in either the patent laws or in interpretations of patent laws in the U.S. and other countries may diminish the value of our intellectual property. Accordingly, we cannot predict the breadth of claims that may be allowed or enforced in our patents or in third-party patents.

The degree of future protection for our proprietary rights is uncertain because legal means afford only limited protection and may not adequately protect our rights or permit us to gain or keep our competitive advantage. For example:

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we or our licensors might not have been the first to make the inventions covered by each of its pending patent applications and issued patents;

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we or our licensors might not have been the first to file patent applications for these inventions;

others may independently develop similar or alternative technologies or duplicate any of our technologies;

it is possible that none of our pending patent applications will result in issued patents;

our issued patents may not provide a basis for commercially viable products, may not provide us with any competitive advantages, or may be challenged by third parties;

our issued patents may not be valid or enforceable;

we may not develop additional proprietary technologies that are patentable; and

the patents of others may have an adverse effect on our business.

Proprietary trade secrets and unpatented know-how are also very important to our business. Although we have taken steps to protect our trade secrets and unpatented know-how, including entering into confidentiality agreements with third parties and proprietary information and inventions agreements with employees, consultants and advisors, third parties may still obtain this information. Enforcing a claim that a third party illegally obtained and is using our trade secrets or unpatented know-how is expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the U.S. may be less willing to protect this information. Moreover, our competitors may independently develop equivalent knowledge, methods and know-how.

***If we are sued for infringing intellectual property rights of third parties, it will be costly and time consuming, and an unfavorable outcome in that litigation would have a material adverse effect on our business.***

Our commercial success depends upon our ability and the ability of any of our collaborators to develop, manufacture, market, and sell our product candidates and use our proprietary technologies without infringing the proprietary rights of third parties. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we are developing products. Because patent applications can take many years to issue, there may be currently pending applications, unknown to us, which may later result in issued patents that our product candidates or proprietary technologies may infringe. We have not conducted a complete search of existing patents to identify existing patents that our product candidates or proprietary technologies may inadvertently infringe.

We may be exposed to future litigation by the companies holding these patents or other third parties based on claims that our product candidates and/or proprietary technologies infringe their intellectual property rights. If one of these patents was found to cover our product candidates, proprietary technologies or their uses, we or our collaborators could be required to pay damages and could be unable to commercialize our product candidates or use our proprietary technologies unless we obtained a license to the patent. A license to these patents may not be available to us or our collaborators on acceptable terms, if at all.

There is a substantial amount of litigation involving patent and other intellectual property rights in the biotechnology and biopharmaceutical industries generally. If a third party claims that we or our collaborators infringe on its technology, it may face a number of issues, including:

infringement and other intellectual property claims which, with or without merit, may be expensive and time-consuming to litigate and may divert management's attention from its core business;

substantial damages for infringement, including treble damages and attorneys' fees, as well as damages for products development using allegedly infringing drug discovery tools or methods which we may have to pay if a court decides that the product or

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proprietary technology at issue infringes on or violates the third party's rights;

a court prohibiting us from selling or licensing the product or using the proprietary technology unless the third party licenses its technology to us, which it is not required to do;

if a license is available from the third party, we may have to pay substantial royalties, fees and/or grant cross licenses to its technology; and

redesigning our products or processes so they do not infringe, which may not be possible or may require substantial funds and time. We may also be subject to claims that we or our employees, who were previously employed at universities or other biotechnology or pharmaceutical companies, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their

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former employers. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. A loss of key research personnel or their work product could hamper or prevent our ability to commercialize certain potential drugs, which could severely harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

### **Risks Related to Our Industry**

***Our product candidates are subject to extensive regulation, which can be costly and time consuming, cause unanticipated delays or prevent the receipt of the required approvals to commercialize our product candidates.***

The clinical development, manufacturing, labeling, storage, record-keeping, future advertising, promotion, export, marketing and distribution of our product candidates are subject to extensive regulation by the FDA and other regulatory agencies in the U.S. and by comparable foreign governmental authorities. The process of obtaining these approvals is expensive, often takes many years, and can vary substantially based upon the type, complexity and novelty of the products involved. Approval policies or regulations may change. In addition, although members of our management have drug development and regulatory experience, as a company we have not previously filed the marketing applications necessary to gain regulatory approvals for any product. This lack of experience may impede our ability to obtain FDA marketing approval in a timely manner, if at all, for the product candidates we are developing and commercializing. We will not be able to commercialize our product candidates in the U.S. until we obtain FDA approval and in other countries until we obtain approval by comparable governmental authorities. Any delay in obtaining, or inability to obtain, these approvals would prevent us from commercializing our product candidates.

***Even if any of our product candidates receive regulatory approval, they may still face future development and regulatory difficulties.***

If any of our product candidates receive regulatory approval, the FDA and foreign regulatory authorities may still impose significant restrictions on the uses or marketing of the product candidates or impose on-going requirements for post-approval studies. In addition, regulatory agencies subject a product, its manufacturer and the manufacturer's facilities to continuing review and periodic inspections. If previously unknown problems with a product or its manufacturing facility are discovered, a regulatory agency may impose restrictions on that product, us, or our partners, including requiring withdrawal of the product from the market. Our candidates will also be subject to on-going FDA requirements for submission of safety and other post-market information. If our product candidates fail to comply with applicable regulatory requirements, a regulatory agency may:

issue warning letters;

impose civil or criminal penalties;

suspend regulatory approval;

suspend any on-going clinical trials;

refuse to approve pending applications or supplements to approved applications filed by us or our collaborators;

impose restrictions on operations, including costly new manufacturing requirements; or

seize or detain products or require a product recall.

In order to market any products outside of the U.S., we and our partners must establish and comply with numerous and varying regulatory requirements of other countries regarding safety and efficacy. Approval procedures vary among countries and can involve additional product testing and additional administrative review periods. The time required to obtain approval in other countries might differ from that required to

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obtain FDA approval. The regulatory approval process in other countries may include all of the risks detailed above regarding FDA approval in the U.S. Regulatory approval in one country does not ensure regulatory approval in another, but a failure or delay in obtaining regulatory approval in one country may negatively impact the regulatory process in others. Failure to obtain regulatory approval in other countries or any delay or setback in obtaining such approval could have the same adverse effects described above regarding FDA approval in the U.S., including the risk that our product candidates may not be approved for all indications requested, which could limit the uses of our product candidates and adversely impact potential royalties and product sales, and that such approval may be subject to limitations on the indicated uses for which the product may be marketed or require costly, post-marketing follow-up studies.

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If we and our partners fail to comply with applicable foreign regulatory requirements, we and our partners may be subject to fines, suspension or withdrawal of regulatory approvals, product recalls, seizure of products, operating restrictions and criminal prosecution.

***If our competitors have products that are approved faster, marketed more effectively or demonstrated to be more effective than our products, then our commercial opportunity will be reduced or eliminated.***

The biotechnology and biopharmaceutical industries are characterized by rapidly advancing technologies, intense competition and a strong emphasis on proprietary products. We face competition from many different sources, including commercial pharmaceutical and biotechnology enterprises, academic institutions, government agencies and private and public research institutions. Due to the high demand for treatments in the areas in which we are competing, research is intense and new treatments are being sought out and developed by our competitors.

In addition, many other competitors are developing products for the treatment of the diseases we are targeting and if successful, these products could compete with our products. If we receive approval to market and sell any of our product candidates, we may compete with these companies and their products as well as others in varying stages of development.

Many of our competitors have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, clinical trials, regulatory approvals and marketing approved products than we do. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. Our competitors may succeed in developing technologies and therapies that are more effective, better tolerated or less costly than ours, or that would render our product candidates obsolete and noncompetitive. Our competitors may succeed in obtaining approvals from the FDA and foreign regulatory authorities for their products sooner than we do. We will also face competition from these third parties in recruiting and retaining qualified scientific and management personnel, establishing clinical trial sites and patient registration for clinical trials, and in acquiring and in-licensing technologies and products complementary to our programs or advantageous to our business.

***We are subject to uncertainty relating to health care reform measures and reimbursement policies which, if not favorable to our product candidates, could hinder or prevent the commercial success of our product candidates.***

The continuing efforts of the government, insurance companies, managed care organizations and other payors of health care costs to contain or reduce costs of health care may adversely affect our:

ability to set a price we believe is fair for our products;

ability to generate revenues and achieve profitability;

future revenues and profitability of potential customers, suppliers and collaborators; and

the availability of capital.

In certain foreign markets, the pricing of prescription drugs is subject to government control. In the U.S., given recent federal and state government initiatives directed at lowering the total cost of health care, Congress and state legislatures will likely continue to focus on health care reform, the cost of prescription drugs and the reform of the Medicare and Medicaid systems. For example, a new Medicare prescription drug benefit program began in 2006. While we cannot predict the full outcome of the implementation of this legislation or whether any future legislative or regulatory proposals affecting our business will be adopted, the announcement or adoption of these proposals could materially and adversely affect our business, financial condition, and results of operations.

Our ability to commercialize our product candidates successfully will depend in part on the extent to which governmental authorities, private health insurers and other organizations establish appropriate reimbursement levels for the cost of our products and related treatments.

Third-party payors are increasingly challenging the prices charged for medical products and services. Also, the trend toward managed health care in the U.S., which could significantly influence the purchase of health care services and products, as well as legislative proposals to reform health care or reduce government insurance programs, may result in lower prices for our product candidates or exclusion of its product candidates from reimbursement programs. The cost containment measures that health care payors and providers are instituting and the effect of

any health care reform could materially and adversely affect our results of operations.

***Product liability claims may harm our business if our insurance coverage for those claims is inadequate.***

We face an inherent risk of product liability exposure related to the testing of our product candidates in human clinical trials, and will face an even greater risk if we sell our product candidates commercially. An individual may bring a liability claim against us if one of our product candidates causes, or merely appears to have caused, an injury. If we are unable to successfully defend ourselves against any such product liability claim, we will incur substantial liabilities. Regardless of merit or eventual outcome, liability claims may result in:

decreased demand for our product candidates;

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injury to our reputation;

withdrawal of clinical trial participants;

costs of related litigation;

substantial monetary awards to patients or other claimants;

loss of revenues; and

the inability to commercialize our product candidates.

We have product liability insurance that covers our clinical trials, up to an annual aggregate limit of \$5.0 million. We intend to expand our insurance coverage to include the sale of commercial products if marketing approval is obtained for any of our product candidates. However, insurance coverage is increasingly expensive. We may not be able to maintain insurance coverage at a reasonable cost and we may not be able to obtain insurance coverage that will be adequate to satisfy any liability that may arise.

***We use hazardous chemicals and radioactive and biological materials in our business. Any claims relating to improper handling, storage or disposal of these materials could be time-consuming and costly.***

Our research and development processes involve the controlled use of hazardous materials, including chemicals, radioactive and biological materials. Our operations produce hazardous waste products. We cannot eliminate the risk of accidental contamination or discharge and any resultant injury from those materials. Federal, state and local laws and regulations govern the use, manufacture, storage, handling and disposal of hazardous materials. We may be sued for any injury or contamination that results from our use or the use by third parties of these materials. Compliance with environmental laws and regulations may be expensive, and current or future environmental regulations may impair our research, development and production efforts.

## **Risks Related to our Common Stock**

***Our stock price has been, and is expected to continue to be, volatile.***

The market price of our common stock could be subject to significant fluctuations. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile. Some of the factors that may cause the market price of our common stock to fluctuate include:

the results of our current and any future clinical trials of our product candidates;

the results of on-going preclinical studies and planned clinical trials of our preclinical product candidates;

the entry into, or termination of, key agreements, including key strategic alliance agreements;

the results and timing of regulatory reviews relating to the approval of our product candidates;

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the initiation of, material developments in, or conclusion of litigation to enforce or defend any of our intellectual property rights;

general and industry-specific economic conditions that may affect our research and development expenditures;

the results of clinical trials conducted by others on drugs that would compete with our product candidates;

issues in manufacturing our product candidates or any approved products;

the loss of key employees;

the introduction of technological innovations or new commercial products by our competitors;

failure of any of our product candidates, if approved, to achieve commercial success;

changes in estimates or recommendations by securities analysts, if any, who cover our common stock;

future sales of our common stock;

changes in the structure of health care payment systems; and

period-to-period fluctuations in our financial results.

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Moreover, the stock markets in general have experienced substantial volatility that has often been unrelated to the operating performance of individual companies. These broad market fluctuations may also adversely affect the trading price of our common stock.

In the past, following periods of volatility in the market price of a company's securities, stockholders have often instituted class action securities litigation against those companies. Such litigation, if instituted, could result in substantial costs and diversion of management attention and resources, which could significantly harm our profitability and reputation.

***Anti-takeover provisions in our stockholder rights plan and in our certificate of incorporation and bylaws may prevent or frustrate attempts by stockholders to change the board of directors or current management and could make a third-party acquisition difficult.***

We are a party to a stockholder rights plan, also referred to as a poison pill, which is intended to deter a hostile takeover of us by making such proposed acquisition more expensive and less desirable to the potential acquirer. The stockholder rights plan and our certificate of incorporation and bylaws, as amended, contain provisions that may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares. These provisions could limit the price that investors might be willing to pay in the future for shares of our common stock.

***Our largest stockholders may take actions that are contrary to your interests, including selling their stock.***

A small number of our stockholders hold a significant amount of our outstanding stock. These stockholders may support competing transactions and have interests that are different from yours. In addition, the average number of shares of our stock that trade each day is generally low. As a result, sales of a large number of shares of our stock by these large stockholders or other stockholders within a short period of time could adversely affect our stock price.

***Our management has broad discretion over the use of our cash and we may not use our cash effectively, which could adversely affect our results of operations.***

Our management has significant flexibility in applying our cash resources and could use these resources for corporate purposes that do not increase our market value, or in ways with which our stockholders may not agree. We may use our cash resources for corporate purposes that do not yield a significant return or any return at all for our stockholders, which may cause our stock price to decline.

***Raising additional funds by issuing securities or through collaboration and licensing arrangements may cause dilution to existing stockholders, restrict operations or require us to relinquish proprietary rights.***

We may raise additional funds through public or private equity offerings, debt financings or corporate collaboration and licensing arrangements. To the extent that we raise additional capital by issuing equity securities, our existing stockholders' ownership will be diluted. Any debt financing we enter into may involve covenants that restrict our operations. These restrictive covenants may include limitations on additional borrowing, specific restrictions on the use of our assets as well as prohibitions on our ability to create liens, pay dividends, redeem stock or make investments. In addition, if we raise additional funds through collaboration and licensing arrangements, it may be necessary to relinquish potentially valuable rights to our potential products or proprietary technologies, or grant licenses on terms that are not favorable to us.

***There is only a limited trading market for our common stock and it is possible that investors may not be able to sell their shares easily.***

There is currently only a limited trading market for our common stock. Our common stock trades on the Nasdaq Global Market under the symbol "TPTX" with very limited trading volume. We cannot assure investors that a substantial trading market will be sustained for our common stock.

## **Item 2. Unregistered Sales of Equity Securities and Use of Proceeds**

On June 11, 2008, we entered into the Loan with the Bank. As partial consideration for the Loan, we issued to the Bank a warrant to purchase 78,832 shares of our common stock at a price per share of \$1.37. The warrant is exercisable at any time prior to its expiration on June 11, 2013. The warrant was issued in a private transaction pursuant to an exemption from registration in reliance upon Section 4(2) of the Securities Act of 1933, as amended.



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

We held our 2008 Annual Meeting of Stockholders on June 19, 2008. As of the close of business on April 21, 2008, the record date for the Annual Meeting, there were 15,745,127 shares outstanding and entitled to vote, of which there were 13,129,920 shares present at the Annual Meeting in person or by proxy. At the Annual Meeting, our stockholders approved the following matters:

1. The election of seven directors to hold office for the ensuing year and until their successors are elected. The vote for the nominees for director was as follows:

| <b>Nominee</b>          | <b>For</b> | <b>Withheld</b> |
|-------------------------|------------|-----------------|
| Peter Davis, Ph.D.      | 12,749,984 | 379,936         |
| Jean Deleage, Ph.D.     | 12,568,319 | 561,601         |
| Steven H. Ferris, Ph.D. | 12,751,389 | 378,531         |
| Jason Fisherman, M.D.   | 12,411,566 | 718,354         |
| Neil M. Kurtz, M.D.     | 12,742,568 | 387,352         |
| Steven B. Ratoff        | 12,586,528 | 543,392         |
| Patrick Van Beneden     | 12,373,226 | 756,694         |

2. The ratification of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2008. 12,800,261 shares voted in favor of the proposal, 321,366 shares voted against the proposal, 8,292 shares voted to abstain, and there were no broker non-votes.
3. The 2008 Employee Stock Purchase Plan. 9,521,164 shares voted in favor of the proposal, 533,674 shares voted against the proposal, 6,135 shares voted to abstain, and there were no broker non-votes.

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### **Item 6. Exhibits**

| <b>Number</b> | <b>Exhibits</b>                                                                                                                                                                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1           | Agreement and Plan of Merger and Reorganization, dated as of June 7, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Registration Statement No. 333-136018 filed with the Securities and Exchange Commission on July 25, 2006).                                                 |
| 2.2           | Amendment No. 1 to Agreement and Plan of Merger and Reorganization, dated as of August 25, 2006, by and among Axonyx Inc., Autobahn Acquisition, Inc. and TorreyPines Therapeutics, Inc. (incorporated by reference to Annex A to Amendment No. 1 to Registration Statement No. 333-136018 filed with the Securities and Exchange Commission on August 25, 2006).      |
| 3.1           | Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3.1 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).                                                                                                                                                                                                   |
| 3.2           | Bylaws of the Registrant (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).                                                                                                                                                                                                                         |
| 3.3           | Certificate of Amendment filed with the Secretary of State of the State of Nevada effecting an 8-for-1 reverse stock of the Registrant's common stock and changing the name of the Registrant from Axonyx Inc. to TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 3.3 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006). |
| 3.4           | Articles of Conversion filed with the Secretary of State of the State of Nevada changing the state of incorporation of the Registrant (incorporated by reference to Exhibit 3.4 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).                                                                                                            |
| 3.5           | Certificate of Conversion filed with the Secretary of State of the State of Delaware (incorporated by reference to Exhibit 3.5 to the Registrant's Current Report on Form 8-K, filed on October 10, 2006).                                                                                                                                                             |
| 3.6           | Amendment to Bylaws of the Registrant (incorporated by reference to Exhibit 3.6 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).                                                                                                                                                                                                              |
| 4.1           | Specimen common stock certificate of the Registrant (incorporated by reference to Exhibit 4.1 to the Registrant's Quarterly Report on Form 10-Q filed on August 14, 2007).                                                                                                                                                                                             |
| 4.2           | Form of Warrant to Purchase Common Stock issued to previous holders of TPTX, Inc. redeemable convertible preferred stock in connection with the business combination between TorreyPines Therapeutics, Inc. and Axonyx, Inc. (incorporated by reference to Exhibit 4.2 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).                       |
| 4.3           | Form of Common Stock Purchase Warrant (incorporated by reference to Exhibit 4.3 to the Registrant's Annual Report on Form 10-KSB, filed on March 13, 2000).                                                                                                                                                                                                            |
| 4.4           | Form of Registration Rights Agreement 1999 (incorporated by reference to Exhibit 4.4 to the Registrant's Annual Report on Form 10-KSB, filed on March 13, 2000).                                                                                                                                                                                                       |
| 4.5           | Form of Warrant issued to Stonegate Securities (incorporated by reference to the corresponding exhibit to the Registrant's Annual Report on Form 10-KSB filed on March 22, 2001).                                                                                                                                                                                      |
| 4.6           | Form of Common Stock Purchase Warrant issued to purchasers in a private placement on December 6, 2001 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K filed on December 13, 2001).                                                                                                                                           |
| 4.7           | Form of Warrant issued to SCO Financial Group, LLC (incorporated by reference to Exhibit 4.5 to the Registrant's Registration Statement on Form S-3 (File No. 333-76234) filed on January 3, 2002).                                                                                                                                                                    |

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| <b>Number</b> | <b>Exhibits</b>                                                                                                                                                                                                                                                  |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.8           | Form of Common Stock Purchase Warrant issued to purchasers in a private placement on January 6, 2003 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on January 8, 2003).                                       |
| 4.9           | Form of Warrant issued to AFO Advisors, LLC (incorporated by reference to Exhibit 4.2 to the Registrant's registration statement on Form S-3 (File No. 333-103130), filed on February 12, 2003).                                                                 |
| 4.10          | Form of Common Stock Purchase Warrant issued to purchasers in a private placement on September 12, 2003 (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on September 16, 2003).                                 |
| 4.11          | Form of Common Stock Purchase Warrant issued to purchasers in a private placement on January 8, 2004 (incorporated by reference to Exhibit 4.3 in Registrant's Current Report on Form 8-K filed on January 12, 2004).                                            |
| 4.12          | Registration Rights Agreement dated as of January 8, 2004 between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 in the Current Report on Form 8-K, filed on January 12, 2004).                                                     |
| 4.13          | Registration Rights Agreement dated as of May 3, 2004, between Axonyx Inc. and certain investors (incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K, filed on May 5, 2004).                                                |
| 4.14          | Form of Warrant issued to Comerica Bank on July 1, 2003 (incorporated by reference to Exhibit 4.14 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).                                                                                     |
| 4.15          | Form of Warrant issued to Silicon Valley Bank on December 8, 2000 (incorporated by reference to Exhibit 4.15 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).                                                                           |
| 4.16          | Form of Warrant issued to Oxford Financial and Silicon Valley Bank on September 27, 2005 (incorporated by reference to Exhibit 4.16 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007).                                                    |
| 4.17          | Rights Agreement, dated as of May 13, 2005, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 99.2 to the Registrant's Current Report on Form 8-K, filed on May 16, 2005).                   |
| 4.18          | Amendment to Rights Agreement, dated as of June 7, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K, filed on June 12, 2006).      |
| 4.19          | Amendment to Rights Agreement, dated as of October 3, 2006, between the Registrant and The Nevada Agency and Trust Company, as Rights Agent (incorporated by reference to Exhibit 4.19 to the Registrant's Annual Report on Form 10-K, filed on March 29, 2007). |
| 4.20          | Form of Warrant issued to Comerica Bank on June 11, 2008 (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K, filed on June 17, 2008).                                                                                      |
| 4.21          | Reference is made to Exhibits 3.1 through 3.6.                                                                                                                                                                                                                   |
| 10.1          | Loan And Security Agreement dated June 11, 2008, by and between Comerica Bank and TPTX, Inc. (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K, filed on June 17, 2008).                                                 |
| 10.2          | Third Party Security Agreement dated June 11, 2008 by and between Comerica Bank and TorreyPines Therapeutics, Inc. (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, filed on June 17, 2008).                           |

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| <b>Number</b> | <b>Exhibits</b>                                                                                                                                                                                                                                                                  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.3          | Unconditional Guaranty of TorreyPines Therapeutics, Inc. of the Loan And Security Agreement dated June 11, 2008, by and between Comerica Bank and TPTX, Inc. (incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K, filed on June 17, 2008). |
| 10.4          | TorreyPines Therapeutics, Inc. 2008 Employee Stock Purchase Plan and Form of Offering Document thereunder (incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K, filed on June 23, 2008).                                                     |
| 31.1          | Certification of Principal Executive Officer pursuant to Exchange Act Rules 13a-14(a) and 15d-14(a), adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.                                                                                                          |
| 31.2          | Certification of Principal Financial and Accounting Officer pursuant to Exchange Act Rules 13a-14(a) and 15d-14(a), adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.                                                                                           |
| 32.1          | Certification of Principal Executive Officer pursuant to 18 U.S.C. Section 1350, adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.                                                                                                                              |
| 32.2          | Certification of Principal Financial and Accounting Officer pursuant to 18 U.S.C. Section 1350, adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.                                                                                                               |

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: August 12, 2008

TorreyPines Therapeutics, Inc.

By: /s/ Neil M. Kurtz, M.D.  
Neil M. Kurtz, M.D.

President and Chief Executive Officer

(Principal Executive Officer)

By: /s/ Craig Johnson  
Craig Johnson

Vice President, Finance

Chief Financial Officer, and Secretary

(Principal Financial and Accounting Officer)