Raptor Pharmaceutical Corp Form S-1 August 20, 2010 As filed with the Securities and Exchange Commission on August 20, 2010

Registration Statement File No. 333-____

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM S-1

REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

RAPTOR PHARMACEUTICAL CORP.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of

2834 (Primary Standard Industrial 86-0883978 (I.R.S. Employer

incorporation or organization)

Classification Code Number)

Identification Number)

9 Commercial Blvd., Suite 200

Novato, CA 94949

(415) 382-8111

(Address, including zip code, and telephone number, including area code,

of registrant's principal executive offices)

Kim R. Tsuchimoto

9 Commercial Blvd., Suite 200

Novato, CA 94949

(415) 382-8111

(Name, address, including zip code, and telephone number,

including area code, of agent for service)

Copies to:

Siobhan McBreen Burke, Esq.

Paul, Hastings, Janofsky & Walker, LLP

515 South Flower Street, 25th Floor

Los Angeles, CA 90071

APPROXIMATE DATE OF COMMENCEMENT OF PROPOSED SALE TO THE PUBLIC: From time to time after the effective date of this registration statement, as determined by the selling stockholders.
If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box. [X]
If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []
If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []
If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []
Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer," and "smaller reporting company" in Rule 12b-2 of the Exchange Act (Check one):
Large accelerated[] Accelerated filer [] filer
Non-accelerated[] Smaller reporting[X] filer company
CALCULATION OF REGISTRATION FEE

Title of Each Class of

Securities to be

Registered

Shares of Common

Stock, par value \$0.001

Amount to be

Registered (1)

4,897,614 Shares

Proposed

Maximum

Offering Price Per

Security (2)

\$3.04

Proposed

Maximum

Aggregate

Offering Price (2) \$14,888,746.56

Amount of

Registration

Fee

\$1,061.57

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per share Shares of Common Stock, par value \$0.001 per share, underlying the 4,897,614 Shares \$3.04 \$14,888,746.56 \$1,061.57 Warrants issued as part of the units Shares of Common Stock, par value \$0.001 per share, underlying the 97,952 Shares \$3.04 \$297,774.08 \$21.23 Warrants issued to placement agent Total 9,893,180 Shares \$30,075,267.20 \$2,144.37

- This registration statement covers the following shares of our common stock and shares of our common stock underlying securities issued by us: (a) 4,897,614 shares of our common stock and 4,897,614 shares of our common stock issuable upon exercise of warrants to purchase shares of our common stock, such securities issued together as units, each such unit consisting of one share of common stock and one warrant to purchase one share of our common stock, in connection with our financing which closed on August 12, 2010, and (b) 97,952 shares of our common stock issuable upon exercise of a warrant to purchase shares of our common stock issued to a placement agent in connection with selling efforts for the financing referred to in (a) above. Pursuant to and in accordance with Rule 416 under the Securities Act, there are also registered hereunder such indeterminate number of securities as may be issued to prevent dilution resulting from stock splits, stock dividends, or similar transactions.
- Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(c) of the Securities Act. The proposed maximum offering price per share and proposed maximum aggregate offering price are based upon the average of the high, or \$3.10, and low, or \$2.97, sales prices of our common stock on August 18, 2010, as reported by NASDAQ. It is not known how many shares of our common stock will be sold under this registration statement or at what price or prices such shares will be sold.

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(A) OF THE SECURITIES ACT OF 1933, AS AMENDED, OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(A), SHALL DETERMINE.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale of these securities is not permitted.

Subject to Completion, Dated August 20, 2010

PROSPECTUS

9,893,180 SHARES OF COMMON STOCK

raptorimg1logo.jpg

This prospectus is registering an aggregate of 9,893,180 shares of common stock, par value \$0.001, of Raptor Pharmaceutical Corp., a Delaware corporation, including shares issuable upon the exercise of warrants to purchase our common stock, and relates to the resale of such shares by the selling stockholders identified in this prospectus.

The selling stockholders or their permitted transferees or other successors in interest may, but are not required to, sell their holdings of our common stock in a number of different ways and at varying prices as determined by the prevailing market price for shares or in negotiated transactions. See "Plan of Distribution" on page 11 for a description of how the selling stockholders may dispose of the shares covered by this prospectus. We do not know when or in what amount the selling stockholders may offer the shares for sale.

We will not receive any of the proceeds from the sale of our shares by the selling stockholders pursuant to this prospectus. We have agreed to pay certain expenses related to the registration of the shares of common stock pursuant to the registration statement of which this prospectus forms a part.

Our common stock is registered under Section 12(g) of the Securities Exchange Act of 1934, as amended, and listed on the NASDAQ Capital Market under the symbol "RPTP." On August 19, 2010, the last reported sale price for our common stock as reported on the NASDAQ Capital Market was \$3.04 per share.

INVESTING IN OUR COMMON STOCK INVOLVES SUBSTANTIAL RISKS. SEE THE SECTION TITLED "RISK FACTORS" BEGINNING ON PAGE 9 OF THIS PROSPECTUS TO READ ABOUT FACTORS YOU SHOULD CONSIDER BEFORE BUYING SHARES OF OUR COMMON STOCK.

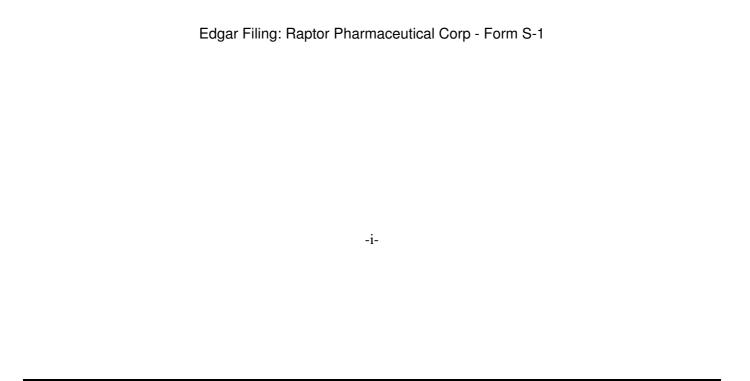
NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

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The date of this prospectus is	, 2010.	

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PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus. This summary does not contain all of the information that you should consider before making an investment decision with respect to our securities. You should read this entire prospectus, including all documents incorporated by reference, carefully, especially the "Risk Factors" section beginning on page 9 of this prospectus and our financial statements and related notes contained in this prospectus before making an investment decision with respect to our securities. Please see the section titled, "Where You Can Find More Information," beginning on page 121 of this prospectus. Unless the context indicates otherwise, references to "Raptor," "the Company," "we," "us," or "our," refers to Raptor Pharmaceutical Corp. and our wholly-own subsidiaries, Raptor Pharmaceuticals Corp., TPTX, Inc., Raptor Discoveries Inc.(f/k/a Raptor Pharmaceutical Inc.) and Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.)

You should rely only on the information contained in this prospectus or any related prospectus supplement, including the content of all documents incorporated by reference into the registration statement of which this prospectus forms a part. We have not authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. The information contained in this prospectus or incorporated by reference herein is accurate only on the date of this prospectus. Our business, financial condition, results of operations and prospects may have changed since such date. Other than as required under the federal securities laws, we undertake no obligation to publicly update or revise such information, whether as a result of new information, future events or any other reason.

Some of the industry data contained in this prospectus is derived from data from various third-party sources. We have not independently verified any of this information and cannot assure you of its accuracy or completeness. While we are not aware of any misstatements regarding any industry data presented herein, such data is subject to change based on various factors, including those discussed under the "Risk Factors" section beginning on page 9 of this prospectus.

Unless otherwise expressly provided in this prospectus, our number of shares of common stock provided herein are on a post-merger basis calculated as of after the 2009 Merger (as defined below).

Overview

We believe that we are building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Our product portfolio includes both candidates from our proprietary drug targeting platforms and in-licensed and acquired product candidates.

Our current pipeline includes three clinical development programs which we are actively developing. We also have three other clinical-stage product candidates, for which we are seeking business development partners but are not actively developing, and we have four preclinical product candidates we are developing, three of which are based upon our proprietary drug-targeting platforms.

Clinical Development Programs

Our three active clinical development programs are based on an existing therapeutic that we are reformulating for potential improvement in safety and/or efficacy and for application in new disease indications. These clinical development programs include the following:

- DR Cysteamine for the potential treatment of nephropathic cystinosis, or cystinosis, a rare genetic disorder;
- DR Cysteamine for the potential treatment of non-alcoholic steatohepatitis, or NASH, a metabolic disorder of the liver; and
- DR Cysteamine for the potential treatment of Huntington's Disease, or HD.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners:

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- ConviviaTM for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with aldehyde dehydrogenase, or ALDH2 deficiency, an inherited metabolic disorder; and
- Tezampanel and NGX426, non-opioids for the potential treatment of migraine, acute pain, and chronic pain.

Preclinical Product Candidates

Our preclinical platforms consist of targeted therapeutics, which we are developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer. These preclinical platforms include the following:

- Our receptor-associated protein, or RAP, platform consists of: HepTideTM for the potential treatment of primary liver cancer and other liver diseases; and NeuroTransTM to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.
- Our mesoderm development protein, or Mesd, platform consists of WntTideTM for the potential treatment of breast cancer.

We are also examining our glutamate receptor antagonists, tezampanel and NGX426, for the potential treatment of thrombosis disorder.

Future Activities

Over the next 12 months, we plan to conduct research and development activities based upon our DR Cysteamine clinical programs and continued development of our preclinical product candidates. We also plan to seek business development partners for our ConviviaTM product candidate and Tezampanel and NGX426. We may also develop future in-licensed technologies and acquired technologies. A brief summary of our primary objectives in the next 12 months

for our research and development activities is provided in the section titled "Description of Business." There can be no assurances that our research and development activities will be successful. In addition, if we do not raise additional funds, we may not be able to continue as a going concern.

Strategic Acquisitions

Reverse Merger with Raptor Pharmaceuticals Corp., or RPC

In July 2009, we, and our then wholly-owned subsidiary ECP Acquisition, Inc., a Delaware corporation, or merger sub, entered into an Agreement and Plan of Merger and Reorganization, or the 2009 Merger Agreement, with Raptor Pharmaceuticals Corp., a Delaware corporation, or RPC. On September 29, 2009, on the terms and subject to the conditions set forth in the 2009 Merger Agreement, merger sub was merged with and into RPC and RPC survived such merger as our wholly-owned subsidiary. This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock and changed our corporate name to "Raptor Pharmaceutical Corp."

As of immediately following the effective time of the 2009 Merger, RPC's stockholders (as of immediately prior to such 2009 Merger) owned approximately 95% of our outstanding common stock and our stockholders (as of immediately prior to such 2009 Merger) owned approximately 5% of our outstanding common stock, in each case without taking into account any of our or RPC's shares of common stock, respectively, that were issuable pursuant to outstanding options or warrants of ours or RPC, respectively, outstanding as of the effective time of the 2009 Merger. Although RPC became our wholly-owned subsidiary, RPC was the "accounting acquirer" in the 2009 Merger and its board of directors and officers manage and operate the combined company. Our common stock currently trades on the NASDAQ Capital Market under the ticker symbol, "RPTP."

Purchase of ConviviaTM

In October 2007, prior to the 2009 Merger, RPC purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting liver ALDH2 deficiency, a genetic metabolic disorder. RPC hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as the President of its clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what we now call ConviviaTM, RPC issued to Convivia 200,000 shares of its common stock, an additional 200,000 shares of its common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of its common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of our common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of our execution of a formulation agreement for manufacturing ConviviaTM with Patheon. In March 2008, RPC issued to Mr. Daley 100,000 shares of its common stock pursuant to the Convivia purchase agreement as a result of the milestone of our execution of an agreement to supply us with the active pharmaceutical ingredient for Convivia™ and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, RPC issued to Mr. Daley 100,000 shares of its common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone. Due to the 2009 Merger, the 200,000, 200,000, 37,500, 100,000 and 100,000 shares RPC, respectively, described above, became 46,625, 46,625, 8,742, 23,312 and 23,312 shares of our common stock, respectively. In July 2010, we issued 11,656 shares of our restricted common stock and paid a \$10,000 cash bonus to Mr. Daley as a result of the execution of the license agreement with Uni Pharma for the development of ConviviaTM in Taiwan.

Purchase of DR Cysteamine

In December 2007, prior to the 2009 Merger, through a merger between Encode Pharmaceuticals, Inc., or Encode, and Raptor Therapeutics, RPC purchased certain assets, including the clinical development rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, RPC issued 3,444,297 shares of its common stock to the stockholders of Encode, or Encode Stockholders, options, or Encode Options, to purchase up to, in the aggregate, 357,427 shares of its common stock to the optionholders of Encode, or Encode Optionholders, and warrants, or Encode Warrants, to purchase up to, in the aggregate, 1,098,276 shares of its common stock to the warrantholders of Encode, or Encode Warrantholders, and together with the Encode Stockholders and Encode Optionholders, referred to herein collectively as the Encode Securityholders, as of the date of such agreement. Due to the 2009 Merger, the 3,444,296 shares of RPC's common stock, the 357,427 Encode Options and 1,098,276 Encode Warrants, respectively, became 802,946 shares of our common stock, Encode Options to purchase 83,325 shares of our common stock and Encode Warrants to purchase 256,034 shares of our common stock, respectively. The Encode Securityholders are eligible to receive up to an additional 559,496 shares of our common stock, Encode Options and Encode Warrants to purchase our common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, we received the exclusive worldwide license to DR Cysteamine, referred to herein as the License Agreement, developed by clinical scientists at the University of California at San Diego, or UCSD, School of Medicine. In consideration of the grant of the license, we are obligated to pay an annual maintenance fee of

\$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we are obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated, among other things, to spend annually at least \$200,000 for the development of products (which we satisfied, as of August 31, 2009 by spending approximately \$4.1 million on such programs) pursuant to the License Agreement. To-date, we have paid \$270,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Company History

Corporate Structure

We were initially incorporated in Nevada on July 29, 1997 as Axonyx Inc. In October 2006, Axonyx Inc. and its then-wholly-owned subsidiary completed a reverse merger, business combination with TorreyPines Therapeutics, Inc., reincorporated in Delaware and changed our corporate name to "TorreyPines Therapeutics, Inc."

On September 29, 2009, we and a wholly-owned subsidiary completed a reverse merger, business combination with RPC pursuant to which RPC became our wholly-owned subsidiary. Immediately prior to such time, we changed our corporate name to "Raptor Pharmaceutical Corp." After such merger, our common stock began trading on the NASDAQ Capital Market and currently trades under the ticker symbol "RPTP." This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock.

RPC was incorporated in the State of Nevada on April 1, 2002 under the name of Highland Clan Creations Corp., or HCCC. On June 9, 2006, HCCC merged with RPC which was incorporated on May 5, 2006 in Delaware. As a result, HCCC was reincorporated from the State of Nevada to the State of Delaware and changed its corporate name to "RPC". HCCC was a publicly traded company quoted on the OTC Bulletin Board and upon such merger, its common stock traded on the OTC Bulletin Board under the ticker "RPTP." Our principal executive office is located at 9 Commercial Blvd., Suite 200, Novato, CA 94949. Our phone number is (415) 382-8111.

On May 25, 2006, RPC acquired 100% of the outstanding capital stock of Raptor Discoveries (f/k/a Raptor Pharmaceutical Inc.) (incorporated in Delaware on September 8, 2005), a development-stage research and development company and on June 9, 2006, RPC disposed of its former wholly-owned subsidiary, Bodysentials Health & Beauty Inc., which sold nutritional milkshakes and drinks on the Internet. On August 1, 2007, RPC formed Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.) as its wholly-owned subsidiary for the purpose of developing clinical-stage drug product candidates through to commercialization.

Financing History of RPC

Initial Investors

On May 25, 2006, in exchange for all of the outstanding common stock of Raptor Pharmaceutical Inc., RPC issued 8,000,000 shares of common stock to the-then Raptor Pharmaceutical Inc. stockholders including 3,000,000 shares of its common stock to each of Christopher M. Starr, Ph.D., and Todd C. Zankel, Ph.D., our Chief Executive Officer and Chief Scientific Officer, respectively, 1,000,000 shares of its common stock to Erich Sager, a member of our board of directors and 1,000,000 shares of its common stock to an unrelated third party. These initial stockholders of Raptor Pharmaceutical Inc. purchased common stock of Raptor Pharmaceutical Inc. when it was a privately held company for the following amounts of proceeds: Dr. Starr \$5,000; Dr. Zankel \$5,000; Mr. Sager \$100,000 and the unrelated third

party \$200,000. Due to the 2009 Merger, the 3,000,000, 3,000,000, 1,000,000 and 1,000,000 shares of common stock of RPC, respectively, described above, became 699,370, 699,370, 233,123 and 233,123 shares of our common stock, respectively.

\$5 Million Financing and the 2006 Reverse Merger

Pursuant to an agreement dated March 8, 2006, with HCCC, on May 25, 2006, RPC closed a \$5 million financing concurrent with a reverse merger. As part of that agreement, HCCC loaned RPC \$0.2 million to be repaid with accrued interest upon the earlier of six months or the closing of the financing. Also, the agreement stated that pending the closing of at least a \$3.5 million financing, HCCC would be obligated to issue 800,000 units as fees to a placement agent and \$30,000 in commissions to an investment broker. In the financing HCCC sold 8,333,333 units of RPC at \$0.60 per unit. Each such unit consisted of one share of RPC's common stock and one common stock purchase warrant exercisable for one share of RPC's common stock at \$0.60 per share. The warrants were exercisable for 18 months and expired on November 25, 2007. Gross proceeds from the financing were \$5 million and net proceeds after the repayment of the \$0.2 million loan plus interest and the deduction of commissions and legal fees totaled approximately \$4.6 million. Prior to the warrants expiring, RPC received \$3,895,000 in gross proceeds from the exercise of warrants in exchange for 6,491,667 shares of its common stock. Due to the 2009 Merger, each such share of common stock of RPC (including such common stock issued pursuant to the exercise of warrants) issued pursuant to such financing and

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reverse merger outstanding as of immediately prior to the 2009 Merger, was exchanged for 0.2331234 shares of our common stock.

Issuance of Common Stock Pursuant to Stock Option Exercises

Since inception, we and RPC have received \$67,508 from the exercise of stock options resulting in the issuance of 39,103 shares of common stock. Our common stock outstanding as of August 13, 2010 was 29,960,196 shares.

RPC's 2008 and 2009 Private Placements and Warrant Exchange

During May and June 2008, prior to the 2009 Merger, RPC, issued an aggregate of 20,000,000 units of its securities, each unit comprised of one share of its common stock and one warrant to purchase one half of one share of its common stock, at a unit purchase price of \$0.50 per unit, in a private placement with various accredited investors. The warrants, exercisable for two years from closing of such private placement, as initially issued, entitled such investors to purchase up to an aggregate of 10,000,000 shares of RPC's common stock at an exercise price of \$0.75 per share during the first year and \$0.90 per share during the second year. In connection with this private placement, RPC issued placement agents warrants to purchase in the aggregate 2,100,000 shares of its common stock at an exercise price of \$0.55 per share for a five year term and it paid to such placement agents cash fees totaling \$700,000. Such placement agent warrants contained a cashless (net exercise) feature that allows its holders, under certain circumstances, to exercise such warrants without making any cash payment. Of the placement agents compensated, Limetree Capital was issued warrants to purchase 1,882,650 shares of RPC's common stock and was paid cash commissions of \$627,550. Erich Sager, one of our board members, serves on the board of directors of Limetree Capital and is a founding partner thereof.

In July 2009, prior to the 2009 Merger, RPC closed a warrant exchange offer with those investor-warrant holders who were holders of the warrants to purchase its common stock issued in connection with its May and June 2008 private placement, as described above, of the right to exchange such warrants and subscribe for new warrants to purchase shares of RPC's common stock at an exercise price of \$0.30 per share (to the extent such new warrants were exercised (in whole or in part) on or before July 17, 2009). Pursuant to such warrant exchange, new warrants were exercised for an aggregate amount of 8,715,000 shares of RPC's common stock which resulted in aggregate proceeds to RPC of \$2,614,500.

In August 2009, prior to the 2009 Merger, RPC, issued an aggregate of 7,456,250 units of its securities, each unit comprised of one share of its common stock and one warrant to purchase one half of one share of its common stock, at a unit purchase price of \$0.32 per unit, in a private placement with various accredited investors. The warrants, exercisable for two years from closing of such private placement, as initially issued, entitled such investors to purchase up to an aggregate of 3,728,125 shares of RPC's common stock at an exercise price of \$0.60 per share during the first year and \$0.75 per share during the second year. In connection with this private placement, RPC issued Limetree Capital, the placement agent in such private placement, warrants to purchase in the aggregate 556,500 shares of its common stock at an exercise price of \$0.35 per share for a five year term and it paid to such placement agent cash fees totaling \$59,360. Such placement agent warrants contained a cashless (net exercise) feature that allows its holders, under certain circumstances, to exercise such warrants without making any cash payment.

As a result of the 2009 Merger, (i) the 20,000,000 shares of RPC's common stock issued in the 2008 private placement, the 8,715,000 shares of RPC's common stock issued as a result of the warrant exchange, and the 7,456,250 shares of RPC's common stock issued in the 2009 private placement, were converted into the right to receive an aggregate of 8,432,364 shares of our common stock, (ii) the warrants issued in the 2008 private placement to investors to purchase 10,000,000 shares of RPC's common stock at exercise prices of \$0.75 and \$0.90 per share, depending on when exercised, which, after the warrant exchange, were reduced to warrants to purchase 1,285,000 shares of RPC's common stock, and the warrants issued in the 2009 private placement to investors to purchase 3,728,125 shares of RPC's common stock at exercise prices of \$0.60 and \$0.75 per share, depending on when exercised, were converted into the right to receive warrants to purchase 299,563 shares of our common stock at exercise prices of \$3.21 and \$3.86 per share, depending on when exercised, and warrants to purchase 869,114 shares of our common stock at exercise prices of \$2.57 and \$3.21 per share, depending on when exercised, respectively, and (iii) the warrants issued in the 2008 private placement to such placement agents to purchase 2,100,000 shares of RPC's common stock at an exercise price of \$0.55 per share (after the exercise by a certain placement agent of a warrant to purchase 101.850 shares of RPC's common stock but prior to the effective time of the 2009 Merger), and the warrants issued in the 2009 private placement to such placement agent to purchase 556,500 shares of RPC's common stock at an exercise price of \$0.35 per share, were converted into the right to receive warrants to purchase 465,816 shares of our common stock at an exercise price of \$2.36, 23,744 shares of our common stock, and warrants to purchase 129,733 shares of our common stock at an exercise price of \$1.50, respectively. Other

than as described herein, none of the other provisions of such warrants were changed, including, with respect to the placement agent warrants, the cashless (net exercise) feature.

We filed a registration statement with the Securities and Exchange Commission, or the SEC, covering the resale of 5,557,865 shares of our common stock, including common stock issuable upon the exercise of the warrants, on October 13, 2009. Such registration statement covers certain of our common stock as described above.

Post-Merger Financings

Registered Direct Offering

On December 17, 2009, we entered into a Placement Agent Agreement with Ladenburg Thalmann & Co. Inc., or Ladenburg, as placement agent relating to the issuance and sale to the Direct Offering Investors (as defined below) pursuant to a registered direct offering, or the Direct Offering, of up to 3,747,558 units, or the Units, consisting of (i) 3,747,558 shares of our common stock, (ii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time to time upon exercise of such warrants), or the Series A Warrants, and (iii) warrants to purchase an aggregate of up to 1,873,779 shares of our common stock (and the shares of common stock issuable from time upon exercise of such warrants), or the Series B Warrants, and collectively with the Series A Warrants we refer to as Investor Warrants.

Ladenburg received a placement fee equal to 6.5% of the gross cash proceeds to us from the Direct Offering of the Units or \$487,183 (excluding any consideration that may be paid in the future upon exercise of the Warrants), a warrant to purchase up to an aggregate of 74,951 shares of our common stock at \$2.50 per share (valued at approximately \$52,000 using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and \$25,000 in out-of-pocket accountable expenses. The warrant issued to Ladenburg has the same terms and conditions as the Investor Warrants except that the exercise price is 125% of the public offering price per share or \$2.50 per share, and the expiration date is five years from the effective date of that certain shelf registration statement on Form S-3 (Registration No. 333-162374) which was declared effective by the SEC on November 5, 2009.

In connection with the Direct Offering, following execution of the Placement Agent Agreement, we also entered into a definitive securities purchase agreement, or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors set forth on the signature pages thereto, collectively referred to as Direct Offering Investors, with respect to the Direct Offering of the Units, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per Unit, amounting to gross proceeds of approximately \$7.5 million and estimated net proceeds after commissions and expenses of approximately \$6.9 million. Each Unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. The shares of our common stock and the Warrants were issued separately. The Series A Warrants are exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the fifth (5th) anniversary of the date of issue and ending on the eighteen (18) month anniversary of the date of issue. The Investor Warrants have a per

share exercise price of \$2.45. The Series A Warrants were valued at \$1.3 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 2.23%; expected term 5 years and annual volatility 49.28%) and the Series B Warrants were valued at \$0.5 million (using the following Black-Scholes pricing model assumptions: risk-free interest rate 0.56%; expected term 18 months and annual volatility 49.28%). Based on the underlying terms of the Investor Warrants and Placement Agent Warrants, the Investor Warrants are classified as liability on our condensed consolidated financial statements.

Equity Line Facility with Lincoln Park Capital Fund, LLC, or LPC

On April 16, 2010, we executed a purchase agreement, or the LPC Purchase Agreement, and a registration rights agreement, or the LPC Registration Rights Agreement, with LPC. Under the LPC Purchase Agreement, LPC is obligated to purchase from us up to \$15 million of our common stock, from time to time over a twenty-five (25) month period.

Pursuant to the LPC Registration Rights Agreement, we filed a registration statement on April 23, 2010 with the SEC, for 4.5 million shares of our common stock covering the shares that have been issued or may be issued to LPC under the LPC Purchase Agreement. The registration statement was declared effective on May 7, 2010. Thereafter, over approximately 25 months, generally we have the right to direct LPC to purchase up to \$15,000,000 of our common stock in amounts up to \$100,000 as often as every two business days under certain conditions. We can also accelerate the

amount of our common stock to be purchased under certain circumstances. No sales of shares may occur at a purchase price below \$1.50 per share. The purchase price of the shares will be based on the market prices of our shares at the time of sale as computed under the LPC Purchase Agreement without any fixed discount. We may at any time in our sole discretion terminate the LPC Purchase Agreement without fee, penalty or cost upon one business days notice. We issued 145,033 shares of our common stock to LPC as a commitment fee for entering into the agreement, and we are obligated to issue up to 217,549 shares pro rata as LPC purchases up to \$15,000,000 of our common stock as directed by us.

The 4.5 million shares that we registered consist of 4,137,418 shares that we have or may sell to LPC, 145,033 shares we issued as a commitment fee, and 217,549 shares that we have or are obligated to issue to LPC as a commitment fee pro rata as up to \$15,000,000 of our common stock is purchased by LPC.

Cumulatively, as of August 13, 2010, we have sold approximately 2.2 million shares under the equity line, raising approximately \$4.9 million in gross proceeds to us. We may direct LPC to purchase up to an additional \$10.1 million of shares of our common stock under the LPC Purchase Agreement over the next 21 months, generally in amounts of up to \$100,000 every 2 business days. The selling price of our common stock to LPC will have to average at least \$5.14 per share for us to receive the maximum proceeds of \$15 million under the LPC Purchase Agreement. Assuming a purchase price of \$1.50 per share (the minimum price of the common stock) and the purchase by LPC of the 1,966,620 shares left under the LPC Purchase Agreement plus the proceeds from the 2,170,798 shares purchased by LPC to-date, proceeds to us would only be approximately \$7.8 million unless we choose to register more than 4,137,418 shares for sale to LPC under the LPC Purchase Agreement, which, subject to the approval of our board of directors, we have the right, but not the obligation, to do. In the event we elect to issue more than the 4.5 million shares of our common stock registered under a certain registration statement with the SEC, we must first register under the Securities Act of 1933, as amended, or the Securities Act, any additional shares we may elect to sell to LPC before we can sell such additional shares, which could cause substantial dilution to our stockholders. In addition, in the event that we decide to issue more than 4.5 million shares, i.e., greater than 19.99% of our outstanding shares of common stock as of the date of the LPC Purchase Agreement, we would first be required to seek stockholder approval in order to be in compliance with the NASDAQ Capital Market rules.

2010 Private Placement

On August 9, 2010, we entered into a securities purchase agreement with 23 investors set forth on the signature pages thereto (or, the U.S. Investors) and a separate securities purchase agreement with a certain Canadian investor (or, the Canadian Investor and together with the U.S. Investors, the 2010 Private Placement Investors) set forth on the signature pages thereto (or collectively, the 2010 Private Placement Purchase Agreements), for the private placement, or the 2010 Private Placement, of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. JMP Securities LLC, or the Placement Agent, served as our placement agent in the 2010 Private Placement.

The closing of this private placement occurred on August 12, 2010. We issued and sold an aggregate of 4,897,614 units, comprised of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August

12, 2010, has an exercise price of \$3.075 per share. As the placement agent for the 2010 Private Placement, the Placement Agent was issued one warrant to purchase 97,952 shares of our common stock, paid a cash commission of \$978,910.60 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

In connection with the 2010 Private Placement, on August 12, 2010, we entered into a registration rights agreement, or the 2010 Private Placement Registration Rights Agreement, with the 2010 Private Placement Investors, pursuant to which we are filing with the SEC a registration statement of which this prospectus is a part related to the 2010 Private Placement covering the resale of the common stock issued to the 2010 Private Placement Investors under the 2010 Private Placement Purchase Agreements and the shares of common stock that will be issued to the 2010 Private Placement Investors upon exercise of the warrants, including the warrant issued to the Placement Agent.

RESALE OFFERING

Common stock offered by selling stockholders:	9,893,180 shares
Use of proceeds:	The selling stockholders will receive all net proceeds from any resale of our common stock covered by this prospectus. We will not receive any proceeds from any such resale. Any proceeds we receive from the exercise of warrants to purchase the shares included in the shares that are being offered by the selling stockholders hereunder will be used to continue the development of our product candidates and to expand the development of our drug pipeline and for general working
Risk Factors:	capital. See "Use of Proceeds" on page 29. See "Risk Factors" beginning on page 9 and other information included in this prospectus for a discussion of factors you should
NASDAQ Ticker Symbol:	carefully consider before deciding to invest in the shares. RPTP

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RISK FACTORS

An investment in our securities involves a high degree of risk. Before you decide to invest in our securities, you should consider carefully all of the information in this prospectus, including the risks described below, as well as other information included in this prospectus, particularly the specific risk factors discussed in the sections titled "Risk Factors" contained in our filings with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, or the Exchange Act. Any of these risks could have a material adverse effect on our business, prospects, financial condition and results of operations. In any such case, the trading price of our common stock could decline and you could lose all or part of your investment. You should also refer to the other information contained in this prospectus, or incorporated herein by reference, including our financial statements and the notes to those statements, and the information set forth under the caption "Forward Looking Statements." The risks described below and contained in our other periodic reports are not the only ones that we face. Additional risks not presently known to us or that we currently deem immaterial may also adversely affect our business operations.

Risks Related to Our Business

If we fail to obtain the capital necessary to fund our operations, our financial results, financial condition and our ability to continue as a going concern will be adversely affected and we will have to delay or terminate some or all of our product development programs.

Our condensed consolidated financial statements as of May 31, 2010 have been prepared assuming that we will continue as a going concern. As of May 31, 2010, we had an accumulated deficit of approximately \$36.5 million. We expect to continue to incur losses for the foreseeable future and will have to raise substantial cash to fund our planned operations. Our recurring losses from operations and our stockholders' deficit raise substantial doubt about our ability to continue as a going concern and, as a result, our independent registered public accounting firm included an explanatory paragraph in its report on our consolidated financial statements for the year ended August 31, 2009, with respect to this uncertainty. We will need to generate significant revenue or raise additional capital to continue to operate as a going concern. In addition, the perception that we may not be able to continue as a going concern may cause others to choose not to deal with us due to concerns about our ability to meet our contractual obligations and may adversely affect our ability to raise additional capital.

We believe our cash and cash equivalents as of August 13, 2010 of \$17.2 million (taking into account approximately \$14 million in proceeds received by us from the 2010 Private Placement, net of commission and other expenses paid to the Placement Agent) will be sufficient to meet our obligations into the fourth calendar quarter of 2011. We are currently in the process of negotiating strategic partnerships and collaborations to supplement the funding of our preclinical and clinical programs beyond the fourth calendar quarter of 2011. Beyond the fourth calendar quarter of 2011, we may continue to require additional capital to continue to build our clinical and preclinical pipeline. If we are unable to obtain such additional capital when needed, we may be forced to scale down our expenditures.

On August 9, 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of our common stock, and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase

one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. As the placement agent to this private placement, JMP Securities LLC was issued one warrant to purchase 97,952 shares of our common stock, paid a cash commission of \$978,910.60 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement. Even with the 2010 Private Placement, in the future, we may need to sell equity or debt securities to raise additional funds. The sale of additional securities is likely to result in additional dilution to our stockholders. Additional financing may not be available in amounts or on terms satisfactory to us or at all. We may be unable to raise additional financing due to a variety of factors, including our financial condition, the status of our research and development programs, and the general condition of the financial markets. If we fail to raise additional financing when needed, we may have to delay or terminate some or all of our research and development programs, our financial condition and operating results may be adversely affected and we may have to scale back our operations.

While we are restricted from selling additional shares of our common stock under the 2010 Private Placement Purchase Agreements until the later of (i) November 10, 2010 or (ii) 30 days after the effective date of the registration statement of which this prospectus is a part, we may issue shares in connection with the exercise of warrants and/or stock options, and after the

expiration of such "lock-up" period, we may draw on the equity line with LPC. The extent to which we rely on LPC as a source of funding will depend on a number of factors including, the prevailing market price of our common stock and the extent to which we are able to secure working capital from other sources. Specifically, LPC does not have the right nor the obligation to purchase any shares of our common stock on any business days that the purchase price of our common stock is less than \$1.50 per share. If obtaining sufficient funding from LPC were to prove unavailable or prohibitively dilutive, and if other sources of funding are available to us, we may determine not to sell shares to LPC under the LPC Purchase Agreement.

If we obtain additional financing, we expect to continue to spend substantial amounts of capital on our operations for the foreseeable future. The amount of additional capital we will need depends on many factors, including:

- the progress, timing and scope of our preclinical studies and clinical trials;
- the time and cost necessary to obtain regulatory approvals;
- the time and cost necessary to develop commercial manufacturing processes, including quality systems, and to build or acquire manufacturing capabilities;
- the time and cost necessary to launch and successfully commercialize our product
- candidates, once approved;
 - the time and cost necessary to respond to technological and market developments; and
- any changes made or new developments in our existing collaborative, licensing and other corporate relationships or any new collaborative, licensing and other commercial relationships that we may establish.

Moreover, our fixed expenses such as rent, collaboration and license payments and other contractual commitments are substantial and will likely increase in the future. These fixed expenses are likely to increase because we expect to enter into:

- additional licenses and collaborative agreements;
- contracts for manufacturing, clinical and preclinical research, consulting, maintenance and administrative services; and
- financing facilities.

We are an early development stage company and have not generated any revenues to date and have a limited operating history. Many of our drug product candidates are in the concept stage and have not undergone significant testing in preclinical studies or any testing in clinical trials. Moreover, we cannot be certain that our research and development efforts will be successful or, if successful, that our drug product candidates will ever be approved for sale or generate commercial revenues. We have a limited relevant operating history upon which an evaluation of our performance and prospects can be made. We are subject to all of the business risks associated with a new enterprise, including, but not limited to, risks of unforeseen capital requirements, failure of drug product candidates either in preclinical testing or in clinical trials, failure to establish business relationships, and competitive disadvantages against larger and more established companies.

The current disruptions in the financial markets could affect our ability to obtain financing on favorable terms (or at all).

The U.S. credit markets have recently experienced historic dislocations and liquidity disruptions which have caused financing to be unavailable in many cases and, even if available, have caused the cost of prospective financings to

increase. These circumstances have materially impacted liquidity in the debt markets, making financing terms for borrowers able to find financing less attractive, and in many cases have resulted in the unavailability of certain types of debt financing. Continued uncertainty in the debt and equity markets may negatively impact our ability to access financing on favorable terms or at all. In addition, Federal legislation to deal with the current disruptions in the financial markets could have an adverse affect on our ability to raise other types of financing.

Even if we are able to develop our drug product candidates, we may not be able to receive regulatory approval, or if approved, we may not be able to generate significant revenues or successfully commercialize our products, which would adversely affect our financial results and financial condition and we would have to delay or terminate some or all of our research product development programs.

All of our drug product candidates are at an early stage of development and will require extensive additional research and development, including preclinical testing and clinical trials, as well as regulatory approvals, before we can market them. Since our inception in 1997, and since Raptor Pharmaceuticals Corp. began operations in 2005, both companies have dedicated substantially all of their resources to the research and development of their technologies and related compounds. All of our compounds currently are in preclinical or clinical development, and none have been submitted for marketing approval. Our preclinical compounds may not enter human clinical trials on a timely basis, if at all, and we may not develop any product candidates suitable for commercialization. We cannot predict if or when any of the drug product candidates we intend to develop will be approved for marketing. There are many reasons that we may fail in our efforts to develop our drug product candidates. These include:

- the possibility that preclinical testing or clinical trials may show that our drug product candidates are ineffective and/or cause harmful side effects;
- our drug product candidates may prove to be too expensive to manufacture or administer to patients;
- our drug product candidates may fail to receive necessary regulatory approvals from the FDA or foreign regulatory authorities in a timely manner, or at all;
- our drug product candidates, if approved, may not be produced in commercial quantities or at reasonable costs;
- our drug product candidates, if approved, may not achieve commercial acceptance;
- regulatory or governmental authorities may apply restrictions to our drug product candidates, which could adversely affect their commercial success; and
- the proprietary rights of other parties may prevent us or our potential collaborative partners from marketing our drug product candidates.

If we fail to develop our drug product candidates, our financial results and financial condition will be adversely affected, we will have to delay or terminate some or all of our research product development programs and may be forced to cease operations.

If we are limited in our ability to utilize acquired or licensed technologies, we may be unable to develop, out-license, market and sell our product candidates, which could cause delayed new product introductions, and/or adversely affect our reputation, any of which could have a material adverse effect on our business, prospects, financial condition, and operating results.

We have acquired and licensed certain proprietary technologies, discussed in the following risk factors, and plan to further license and acquire various patents and proprietary technologies owned by third parties. These agreements are critical to our product development programs. These agreements may be terminated, and all rights to the technologies and product candidates will be lost, if we fail to perform our obligations under these agreements and licenses in accordance with their terms including, but not limited to, our ability to make all payments due under such agreements. Our inability to continue to maintain these technologies could materially adversely affect our business, prospects, financial condition, and operating results. In addition, our business strategy depends on the successful development of these licensed and acquired technologies into commercial products, and, therefore, any limitations on our ability to utilize these technologies may impair our ability to develop, out-license, market and sell our product candidates, delay new product introductions, and/or adversely affect our reputation, any of which could have a material adverse effect on our business, prospects, financial condition, and operating results.

If the purchase or licensing agreements we entered into are terminated, we will lose the right to use or exploit our owned and licensed technologies, in which case we will have to delay or terminate some or all of our research and development programs, our financial condition and operating results will be adversely affected and we may have to cease our operations.

We entered into an asset purchase agreement with BioMarin Pharmaceutical Inc., or BioMarin, for the purchase of intellectual property related to the receptor-associated protein, or RAP, technology, a licensing agreement with Washington University for mesoderm development protein, or Mesd, and a licensing agreement with UCSD for DR Cysteamine. BioMarin, Washington University and UCSD may terminate their respective agreements with us upon the occurrence of certain events, including if we enter into certain bankruptcy proceedings or if we materially breach our payment obligations and fail to remedy the breach within the permitted cure periods. Although we are not currently involved in any bankruptcy proceedings or in breach of these agreements, there is a risk that we may be in the future, giving BioMarin, Washington University and UCSD the right to

terminate their respective agreements with us. We have the right to terminate these agreements at any time by giving prior written notice. If the BioMarin, Washington University or UCSD agreements are terminated by either party, we would be forced to assign back to BioMarin, in the case of the BioMarin agreement, all of our rights, title and interest in and to the intellectual property related to the RAP technology, would lose our rights to the Mesd technology, in the case of the Washington University agreement and would lose our rights to DR Cysteamine, in the case of UCSD. Under such circumstances, we would have no further right to

use or exploit the patents, copyrights or trademarks in those respective technologies. If this happens, we will have to delay or terminate some or all of our research and development programs, our financial condition and operating results will be adversely affected, and we may have to cease our operations. If we lose our rights to the intellectual property related to the RAP technology purchased by us from BioMarin, our agreement with Roche regarding the evaluation of therapeutic delivery across the blood-brain barrier utilizing NeuroTransTM would likely be terminated and any milestone or royalty payments from Roche to us would thereafter cease to accrue.

If we fail to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, we may be limited in our ability to develop our drug product candidates.

Our competitors compete with us to attract established biotechnology and pharmaceutical companies or organizations for acquisitions, joint ventures, licensing arrangements or other collaborations. Collaborations include licensing proprietary technology from, and other relationships with, academic research institutions. If our competitors successfully enter into partnering arrangements or license agreements with academic research institutions, we will then be precluded from pursuing those specific opportunities. Since each of these opportunities is unique, we may not be able to find a substitute. Other companies have already begun many drug development programs, which may target diseases that we are also targeting, and have already entered into partnering and licensing arrangements with academic research institutions, reducing the pool of available opportunities.

Universities and public and private research institutions also compete with us. While these organizations primarily have educational or basic research objectives, they may develop proprietary technology and acquire patents that we may need for the development of our drug product candidates. We will attempt to license this proprietary technology, if available. These licenses may not be available to us on acceptable terms, if at all. If we are unable to compete successfully with respect to acquisitions, joint venture and other collaboration opportunities, we may be limited in our ability to develop new products.

If we do not achieve our projected development goals in the time frames we announce and expect, the credibility of our management and our technology may be adversely affected and, as a result, the price of our common stock may decline.

For planning purposes, we estimate the timing of the accomplishment of various scientific, clinical, regulatory and other product development goals, which we sometimes refer to as milestones. These milestones may include the commencement or completion of scientific studies and clinical trials and the submission of regulatory filings.

From time to time, we may publicly announce the expected timing of some of these milestones. All of these milestones will be based on a variety of assumptions. The actual timing of these milestones can vary dramatically compared to our estimates, in many cases for reasons beyond our control. If we do not meet these milestones as publicly announced, our stockholders may lose confidence in our ability to meet these milestones and, as a result, the price of our common stock may decline.

Our product development programs will require substantial additional future funding which could impact our operational and financial condition.

It will take several years before we are able to develop marketable drug product candidates, if at all. Our product development programs will require substantial additional capital to successfully complete them, arising from costs to:

- conduct research, preclinical testing and human studies;
- establish pilot scale and commercial scale manufacturing processes and facilities; and
- establish and develop quality control, regulatory, marketing, sales, finance and administrative capabilities to support these programs.

Our future operating and capital needs will depend on many factors, including:

- the pace of scientific progress in our research and development programs and the magnitude of these programs;
- the scope and results of preclinical testing and human clinical trials;
- our ability to obtain, and the time and costs involved in obtaining regulatory approvals;
- our ability to prosecute, maintain, and enforce, and the time and costs involved in preparing, filing, prosecuting, maintaining and enforcing patent claims;
- competing technological and market developments;
- our ability to establish additional collaborations;
- · changes in our existing collaborations;
- the cost of manufacturing scale-up; and
- the effectiveness of our commercialization activities.

We base our outlook regarding the need for funds on many uncertain variables. Such uncertainties include the success of our research initiatives, regulatory approvals, the timing of events outside our direct control such as negotiations with potential strategic partners and other factors. Any of these uncertain events can significantly change our cash requirements as they determine such one-time events as the receipt or payment of major milestones and other payments.

Significant additional funds will be required to support our operations and if we are unable to obtain them on favorable terms, we may be required to cease or reduce further development or commercialization of our drug product programs, to sell some or all of our technology or assets, to merge with another entity or cease operations.

Uncertainties regarding healthcare reform and third-party reimbursement may impair our ability to raise capital, form collaborations and if any of our product candidates become marketable, sell such products.

The continuing efforts of governmental and third-party payers to contain or reduce the costs of healthcare through various means may harm our business. For example, in some foreign markets, the pricing or profitability of healthcare products is subject to government control. In the United States, there have been, and we expect there will continue to be, a number of federal and state proposals to implement similar government control. The implementation or even the announcement of any of these legislative or regulatory proposals or reforms could harm our business if any of our product candidates become marketable by reducing the prices we or our partners are able to charge for our products (if marketable), impeding our ability to achieve profitability, raise capital or form collaborations. In addition, the availability of reimbursement from third-party payers determines, in large part, the demand for healthcare products in the United States and elsewhere. Examples of such third-party payers are government and private insurance plans. Significant uncertainty exists as to the reimbursement status of newly approved healthcare products and third-party payers are increasingly challenging the prices charged for medical products and services. If we succeed in bringing one or more products to the market, reimbursement from third-party payers may not be available or may not be sufficient to allow us to sell such products on a competitive or profitable basis.

If we fail to demonstrate efficacy in our preclinical studies and clinical trials our future business prospects, financial condition and operating results will be materially adversely affected.

The success of our development and commercialization efforts will be greatly dependent upon our ability to demonstrate drug product candidate efficacy in preclinical studies, as well as in clinical trials. Preclinical studies involve testing drug product candidates in appropriate non-human disease models to demonstrate efficacy and safety. Regulatory agencies evaluate these data carefully before they will approve clinical testing in humans. If certain preclinical data reveals potential safety issues or the results are inconsistent with an expectation of the drug product candidate's efficacy in humans, the regulatory agencies may require additional more rigorous testing, before allowing human clinical trials. This additional testing will increase program expenses and extend timelines. We may decide to suspend further testing on our drug product candidates or technologies if, in the judgment of our management and advisors, the preclinical test results do not support further development.

Moreover, success in preclinical testing and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be sure that the results of later clinical trials will replicate the results of prior clinical trials and preclinical testing. The clinical trial process may fail to demonstrate that our drug product candidates are safe for humans and effective for indicated uses. This failure would cause us to abandon a drug product candidate and may delay development of other drug product candidates. Any delay in, or termination of, our preclinical testing or clinical trials will delay the filing of our investigational new drug application, or IND, and new drug application, or NDA, as applicable, with the FDA and, ultimately, our ability to commercialize our drug product candidates and generate product revenues. In addition, some of our clinical trials will involve small patient populations. Because of the small sample size, the results of these early clinical trials may not be indicative of future results. Following successful preclinical testing, drug product candidates will need to be tested in a clinical development program to provide data on safety and efficacy prior to becoming eligible for product approval and licensure by regulatory agencies. From first clinical trial through product approval can take at least eight years, on average in the U.S.

If any of our future clinical development drug product candidates become the subject of problems, including those related to, among others:

- efficacy or safety concerns with the drug product candidates, even if not justified;
- unexpected side-effects;
- regulatory proceedings subjecting the drug product candidates to potential recall:
- publicity affecting doctor prescription or patient use of the drug product candidates;
- pressure from competitive products; or
- introduction of more effective treatments,

our ability to sustain our development programs will become critically compromised. For example, efficacy or safety concerns may arise, whether or not justified, that could lead to the suspension or termination of our clinical programs.

Each clinical phase is designed to test attributes of drug product candidates and problems that might result in the termination of the entire clinical plan can be revealed at any time throughout the overall clinical program. The failure to demonstrate efficacy in our clinical trials would have a material adverse effect on our future business prospects, financial condition and operating results.

If we do not obtain the support of new, and maintain the support of existing, key scientific collaborators, it may be difficult to establish products using our technologies as a standard of care for various indications, which may limit our revenue growth and profitability and could have a material adverse effect on our business, prospects, financial condition and operating results.

We will need to establish relationships with additional leading scientists and research institutions. We believe that such relationships are pivotal to establishing products using our technologies as a standard of care for various indications. Although we have established a Medical and Scientific Advisory Board and research collaborations, there is no assurance that our Advisory Board members and our research collaborators will continue to work with us or that we will be able to attract additional research partners. If we are not able to maintain existing or establish new scientific

relationships to assist in our research and development, we may not be able to successfully develop our drug product candidates.

If the manufacturers upon whom we rely fail to produce in the volumes and quality that we require on a timely basis, or to comply with stringent regulations applicable to pharmaceutical manufacturers, we may face delays in the development and commercialization of, or be unable to meet demand for, our products, if any, and may lose potential revenues.

We do not currently manufacture our drug product candidates and do not currently plan to develop the capacity to do so. The manufacture of pharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of pharmaceutical products often encounter difficulties in production, particularly in scaling up initial production. These problems include difficulties with production costs and yields, quality control, including stability of the product candidate and quality assurance testing, shortages of qualified personnel, as well as compliance with strictly enforced federal, state and foreign regulations. Our third-party manufacturers and key suppliers may experience manufacturing difficulties due to resource constraints or as a result of labor disputes, unstable political environments at foreign facilities or financial difficulties. If these manufacturers or key suppliers were to encounter any of these difficulties, or

otherwise fail to comply with their contractual obligations, our ability to timely launch any potential product candidate, if approved, would be jeopardized.

In addition, all manufacturers and suppliers of pharmaceutical products must comply with current good manufacturing practices, or cGMP, requirements enforced by the FDA, through its facilities inspection program. The FDA is likely to conduct inspections of our third party manufacturer and key supplier facilities as part of their review of any of our NDAs. If our third party manufacturers and key suppliers are not in compliance with cGMP requirements, it may result in a delay of approval, particularly if these sites are supplying single source ingredients required for the manufacture of any potential product. These cGMP requirements include quality control, quality assurance and the maintenance of records and documentation. Furthermore, regulatory qualifications of manufacturing facilities are applied on the basis of the specific facility being used to produce supplies. As a result, if a manufacturer for us shifts production from one facility to another, the new facility must go through a complete regulatory qualification and be approved by regulatory authorities prior to being used for commercial supply. Our manufacturers 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 of production, suspension or delay in product approval, product seizure or recall, or withdrawal of product approval. If the safety of any quantities supplied is compromised due to a our third party manufacturer's or key supplier's failure to adhere to applicable laws or for other reasons, we may not be able to obtain regulatory approval for or successfully commercialize our products.

If we fail to obtain or maintain orphan drug exclusivity for some of our drug product candidates, our competitors may sell products to treat the same conditions and our revenues will be reduced.

As part of our business strategy, we intend to develop some drugs that may be eligible for FDA and European Union, or EU, orphan drug designation. Under the Orphan Drug Act, the FDA may designate a product as an orphan drug if it is a drug intended to treat a rare disease or condition, defined as a patient population of less than 200,000 in the U.S. The company that first obtains FDA approval for a designated orphan drug for a given rare disease receives marketing exclusivity for use of that drug for the stated condition for a period of seven years. Orphan drug exclusive marketing rights may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantity of the drug. Similar regulations are available in the EU with a 10-year period of market exclusivity.

Because the extent and scope of patent protection for some of our drug products is particularly limited, orphan drug designation is especially important for our products that are eligible for orphan drug designation. For eligible drugs, we plan to rely on the exclusivity period under Orphan Drug Act designation to maintain a competitive position. If we do not obtain orphan drug exclusivity for our drug products that do not have patent protection, our competitors may then sell the same drug to treat the same condition and our revenues will be reduced.

Even though we have obtained orphan drug designation for DR Cysteamine for the potential treatment of nephropathic cystinosis, the potential treatment of HD and the potential treatment of Batten Disease and even if we obtain orphan drug designation for our future drug product candidates, due to the uncertainties associated with developing pharmaceutical products, we may not be the first to obtain marketing approval for any orphan indication. Further, even if we obtain orphan drug exclusivity for a product, that exclusivity may not effectively protect the product from competition because different drugs can be approved for the same condition. Even after an orphan drug

is approved, the FDA can subsequently approve the same drug for the same condition if the FDA concludes that the later drug is safer, more effective or makes a major contribution to patient care. Orphan drug designation neither shortens the development time or regulatory review time of a drug, nor gives the drug any advantage in the regulatory review or approval process.

The fast-track designation for our drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of our products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Although we have received Orphan Drug Designations from the FDA as described above, our drug product candidates may not receive an FDA fast-track designation or priority review. Without fast-track designation, submitting an NDA and getting through the regulatory process to gain marketing approval is a lengthy process. Under fast-track designation, the FDA may initiate review of sections of a fast-track drug's NDA before the application is complete. However, the FDA's time period goal for reviewing an application does not begin until the last section of the NDA is submitted. Additionally, the fast-track designation may be withdrawn by the FDA if the FDA believes that the designation is no longer supported by data emerging in the clinical trial process. Under the FDA policies, a drug candidate is eligible for priority review, or review within a six-month time frame from the time a complete NDA is accepted for filing, if the drug candidate provides a significant improvement compared to

marketed drugs in the treatment, diagnosis or prevention of a disease. A fast-track designated drug candidate would ordinarily meet the FDA's criteria for priority review. The fast-track designation for our drug product candidates, if obtained, may not actually lead to a faster review process and a delay in the review process or in the approval of our products will delay revenue from the sale of the products and will increase the capital necessary to fund these product development programs.

Because the target patient populations for some of our products are small, we must achieve significant market share and obtain high per-patient prices for our products to achieve profitability.

Our clinical development of DR Cysteamine targets diseases with small patient populations, including nephropathic cystinosis and HD. If we are successful in developing DR Cysteamine and receive regulatory approval to market DR Cysteamine for a disease with a small patient population, the per-patient prices at which we could sell DR Cysteamine for these indications are likely to be relatively high in order for us to recover our development costs and achieve profitability. We believe that we will need to market DR Cysteamine for these indications worldwide to achieve significant market penetration of this product.

We may not be able to market or generate sales of our products to the extent anticipated.

Assuming that we are successful in developing our drug product candidates and receive regulatory clearances to market our products, our ability to successfully penetrate the market and generate sales of those products may be limited by a number of factors, including the following:

- Certain of our competitors in the field have already received regulatory approvals for and have begun marketing similar products in the U.S., the EU, Japan and other territories, which may result in greater physician awareness of their products as compared to ours.
- Information from our competitors or the academic community indicating that current products or new products are more effective than our future products could, if and when it is generated, impede our market penetration or decrease our future market share.
- Physicians may be reluctant to switch from existing treatment methods, including traditional therapy agents, to our future products.
- The price for our future products, as well as pricing decisions by our competitors, may have an effect on our revenues.
- Our future revenues may diminish if third-party payers, including private healthcare coverage insurers and healthcare maintenance organizations, do not provide adequate coverage or reimbursement for our future products.

There are many difficult challenges associated with developing proteins that can be used to transport therapeutics across the blood-brain barrier.

Our RAP technology has a potential clinical use as a drug transporter through the blood-brain barrier. However, we do not know that our technology will work or work safely. Many groups and companies have attempted to solve the critical medical challenge of developing an efficient method of transporting therapeutic proteins from the blood stream into the brain. Unfortunately, these efforts to date have met with little success due in part to a lack of adequate

understanding of the biology of the blood-brain barrier and to the enormous scientific complexity of the transport process itself. In the research and development of our RAP technology, we will certainly face many of the same issues that have caused these earlier attempts to fail. It is possible that:

- We or our collaborator/licensee will not be able to produce enough RAP drug product candidates for testing;
- the pharmacokinetics, or where the drug distributes in the body, of our RAP drug product candidates will preclude sufficient binding to the targeted receptors on the blood-brain barrier;
- the targeted receptors are not transported across the blood-brain barrier;
- other features of the blood-brain barrier, apart from the cells, block access molecules to brain tissue after transport across the cells;
- the targeted receptors are expressed on the blood-brain barrier at densities insufficient to allow adequate transport of our RAP drug product candidates into the brain:
- targeting of the selected receptors induces harmful side-effects which prevent their use as drugs; or
- that we or our collaborator/licensee's RAP drug product candidates cause unacceptable side-effects.

Any of these conditions may preclude the use of RAP or RAP fusion compounds from potentially treating diseases affecting the brain.

If our competitors succeed in developing products and technologies that are more effective than our own, or if scientific developments change our understanding of the potential scope and utility of our drug product candidates, then our technologies and future drug product candidates may be rendered less competitive.

We face significant competition from industry participants that are pursuing similar technologies that we are pursuing and are developing pharmaceutical products that are competitive with our drug product candidates. Nearly all of our industry competitors have greater capital resources, larger overall research and development staffs and facilities, and a longer history in drug discovery and development, obtaining regulatory approval and pharmaceutical product manufacturing and marketing than we do. With these additional resources, our competitors may be able to respond to the rapid and significant technological changes in the biotechnology and pharmaceutical industries faster than we can. Our future success will depend in large part on our ability to maintain a competitive position with respect to these technologies. Rapid technological development, as well as new scientific developments, may result in our compounds, drug product candidates or processes becoming obsolete before we can recover any of the expenses incurred to develop them. For example, changes in our understanding of the appropriate population of patients who should be treated with a targeted therapy like we are developing may limit the drug's market potential if it is subsequently demonstrated that only certain subsets of patients should be treated with the targeted therapy.

Our reliance on third parties, such as collaborators, university laboratories, contract manufacturing organizations and contract or clinical research organizations, may result in delays in completing, or a failure to complete, preclinical testing or clinical trials if they fail to perform under our agreements with them.

In the course of product development, we may engage university laboratories, other biotechnology or companies or contract or clinical manufacturing organizations to manufacture drug material for us to be used in preclinical and clinical testing and collaborators and contract or clinical research organizations to conduct and manage preclinical studies and clinical trials. If we engage these organizations to help us with our preclinical and clinical programs, many

important aspects of this process have been and will be out of our direct control. If any of these organizations we may engage in the future fail to perform their obligations under our agreements with them or fail to perform preclinical testing and/or clinical trials in a satisfactory manner, we may face delays in completing our clinical trials, as well as commercialization of any of our drug product candidates. Furthermore, any loss or delay in obtaining contracts with such entities may also delay the completion of our clinical trials, regulatory filings and the potential market approval of our drug product candidates.

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 which could reduce our future revenues.

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. While we seek patent protection for all of our owned and licensed product candidates, our licensors or assignors 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 or assigned to us. By virtue of the previous research that led to the discovery of the drugs or product candidates that they licensed or assigned 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 and may reduce our future revenues from such product candidates.

Any product revenues could be reduced by imports from countries where our product candidates are available at lower prices.

Even if we obtain FDA approval to market our potential products in the United States, our sales in the United States may be reduced if our products are imported into the United States from lower priced markets, whether legally or illegally. In the United States, prices for pharmaceuticals are generally higher than in the bordering nations of Canada and Mexico. There have been proposals to legalize the import of pharmaceuticals from outside the United States. If such legislation were enacted, our potential future revenues could be reduced.

The use of any of our drug product candidates in clinical trials may expose us to liability claims.

The nature of our business exposes us to potential liability risks inherent in the testing, manufacturing and marketing of our drug product candidates. While we are in clinical stage testing, our drug product candidates could potentially harm people or allegedly harm people and we may be subject to costly and damaging product liability claims. Some of the patients who participate in clinical trials are already critically ill when they enter a trial. The waivers we obtain may not be enforceable and may not protect us from liability or the costs of product liability litigation. Although we currently carry a \$3 million clinical product liability insurance policy, it may not be sufficient to cover future claims. We currently do not have any clinical or product liability claims or threats of claims filed against us.

Our future success depends, in part, on the continued service of our management team.

Our success is dependent in part upon the availability of our senior executive officers, including our Chief Executive Officer, Dr. Christopher M. Starr, our Chief Scientific Officer, Dr. Todd C. Zankel, our Chief Financial Officer, Kim R. Tsuchimoto, Ted Daley, the President of our clinical development subsidiary and Dr. Patrice P. Rioux, Chief Medical Officer of our clinical development subsidiary. The loss or unavailability to us of any of these individuals or key research and development personnel, and particularly if lost to competitors, could have a material adverse effect on our business, prospects, financial condition, and operating results. We have no key-man insurance on any of our employees. There is intense competition for qualified scientists and managerial personnel from numerous pharmaceutical and biotechnology companies, as well as from academic and government organizations, research institutions and other entities. In addition, we will rely on consultants and advisors, including scientific and clinical advisors, to assist us in formulating our research and development strategy. All of our consultants and advisors will be

employed by other employers or be self-employed, and will have commitments to or consulting or advisory contracts with other entities that may limit their availability to us. There is no assurance that we will be able to retain key employees and/or consultants. If key employees terminate their employment, or if insufficient numbers of employees are retained to maintain effective operations, our development activities might be adversely affected, management's attention might be diverted from managing our operations to hiring suitable replacements, and our business might suffer. In addition, we might not be able to locate suitable replacements for any key employees that terminate, or that are terminated from, their employment with us and we may not be able to offer employment to potential replacements on reasonable terms, which could negatively impact our product candidate development timelines and may adversely affect our future revenues and financial condition.

Our success depends on our ability to manage our growth.

If we are able to raise significant additional financing, we expect to continue to grow, which could strain our managerial, operational, financial and other resources. With the addition of our clinical-stage programs and with our plan to in-license and acquire additional clinical-stage product candidates, we will be required to retain experienced personnel in the regulatory, clinical and medical areas over the next several years. Also, as our preclinical pipeline diversifies through the acquisition or in-licensing of new molecules, we will need to hire additional scientists to supplement our existing scientific expertise over the next several years.

Our staff, financial resources, systems, procedures or controls may be inadequate to support our operations and our management may be unable to take advantage of future market opportunities or manage successfully our relationships with third parties if we are unable to adequately manage our anticipated growth and the integration of new personnel.

Our executive offices and laboratory facility are located near known earthquake fault zones, and the occurrence of an earthquake or other catastrophic disaster could cause damage to our facility and equipment, or that of our third-party manufacturers or single-source suppliers, which could materially impair our ability to continue our product development programs.

Our executive offices and laboratory facility are located in the San Francisco Bay Area near known earthquake fault zones and are vulnerable to significant damage from earthquakes. We and the third-party manufacturers with whom we contract and our single-source suppliers of raw materials are also vulnerable to damage from other types of disasters, including fires, floods, power loss and similar events. If any disaster were to occur, our ability to continue our product development programs, could be seriously, or potentially completely impaired. The insurance we maintain may not be adequate to cover our losses resulting from disasters or other business interruptions.

We will incur increased costs as a result of recently enacted and proposed changes in laws and regulations and our management will be required to devote substantial time to comply with such laws and regulations.

We face burdens relating to the recent trend toward stricter corporate governance and financial reporting standards. Legislation or regulations such as Section 404 of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, as well as other rules implemented by the SEC and NASDAQ, follow the trend of imposing stricter corporate governance and financial reporting standards have led to an increase in the costs of compliance for companies similar to us, including increases in consulting, auditing and legal fees. New rules could make it more difficult or more costly for us to obtain certain types of insurance, including directors' and officers' liability insurance, and we may be forced to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. The impact of these events could also make it more difficult for us to attract and retain qualified persons to serve on our board of directors, our board committees or as executive officers. Failure to comply with these new laws and regulations may impact market perception of our financial condition and could materially harm our business. Additionally, it is unclear what additional laws or regulations may develop, and we cannot predict the ultimate impact of any future changes in law. Our management and other personnel will need to devote a substantial amount of time to these requirements.

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 our 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. In the future, we may need to hire additional accounting and financial staff to satisfy the ongoing requirements of Section 404. Moreover, if we are not able to comply with the requirements of Section 404, or 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 NASDAQ, the SEC or other regulatory authorities.

We may be required to suspend, repeat or terminate our clinical trials if they do not meet regulatory requirements, the results are negative or inconclusive, or if the trials are not well designed, which may result in significant negative repercussions on our business and financial condition.

Before regulatory approval for any potential product can be obtained, we must undertake extensive clinical testing on humans to demonstrate the tolerability and efficacy of the product, both on our own terms, and as compared to the other principal drugs on the market that have the same therapeutic indication. We cannot provide assurance that we will obtain authorization to permit product candidates that are already in the preclinical development phase to enter the human clinical testing phase. In addition, we cannot provide assurance that any authorized preclinical or clinical testing will be completed successfully within any specified time period by us, or without significant additional resources or expertise to those originally expected to be necessary. We cannot provide assurance that such testing will show potential products to be safe and efficacious or that any such product will be approved for a specific indication. Further, the results from preclinical studies and early clinical trials may not be indicative of the results that will be obtained in later-stage clinical trials. In addition, we or regulatory authorities may suspend clinical trials at any time on the basis that the participants are being exposed to unacceptable health risks.

Completion of clinical tests depends on, among other things, the number of patients available for testing, which is a function of many factors, including the number of patients with the relevant conditions, the nature of the clinical testing, the proximity of patients to clinical testing centers, the eligibility criteria for tests as well as competition with other clinical testing programs involving the same patient profile but different treatments. We will rely on third parties, such as contract research organizations and/or co-operative groups, to assist us in overseeing and monitoring clinical trials as well as to process the clinical results and manage test requests, which may result in delays or failure to complete trials, if the third parties fail to perform or to meet the applicable standards. A failure by us or such third parties to keep to the terms of a product program development for any particular product candidate or to complete the clinical trials for a product candidate in the envisaged time frame could have significant negative repercussions on our business and financial condition.

If we fail to establish and maintain collaborations or if our partners do not perform, we may be unable to develop and commercialize our product candidates, which may adversely affect our future revenues and financial condition.

We have entered into collaborative arrangements with third parties to develop and/or commercialize product candidates. Additional collaborations might be necessary in order for us to fund our research and development activities and third-party manufacturing arrangements, seek and obtain regulatory approvals and successfully commercialize existing and future product candidates. If we fail to maintain the existing collaborative arrangements held by us or fail to enter into additional collaborative arrangements, the number of product candidates from which we could receive future revenues would decline.

Our dependence on collaborative arrangements with third parties will subject us to a number of risks that could harm our ability to develop and commercialize products:

- collaborative arrangements might not be on terms favorable to us;
- disagreements with partners may result in delays in the development and marketing of products, termination of collaboration agreements or time consuming and expensive legal action;
- we cannot control the amount and timing of resources partners devote to product candidates or their prioritization of product candidates, and partners may not allocate sufficient funds or resources to the development, promotion or marketing of our product candidates, or may not perform their obligations as expected;
- partners may choose to develop, independently or with other companies, alternative products or treatments, including products or treatments which compete with ours;
- agreements with partners may expire or be terminated without renewal, or partners may breach collaboration agreements with us;
- business combinations or significant changes in a partner's business strategy might adversely affect that partner's willingness or ability to complete their obligations to us; and
- the terms and conditions of the relevant agreements may no longer be suitable.

We cannot assure you that we will be able to negotiate future collaboration agreements or that those currently in existence will make it possible for us to fulfill our objectives.

We may not complete our clinical trials in the time expected, which could delay or prevent the commercialization of our products, which may adversely affect our future revenues and financial condition.

Although for planning purposes we forecast the commencement and completion of clinical trials, the actual timing of these events can vary dramatically due to factors such as delays, scheduling conflicts with participating clinicians and clinical institutions and the rate of patient enrollment. Clinical trials involving our product candidates may not commence nor be completed as forecasted. In certain circumstances we will rely on academic institutions or clinical research organizations to conduct, supervise or monitor some or all aspects of clinical trials involving our product candidates. We will have less control over the timing and other aspects of these clinical trials than if we conducted them entirely on our own. These trials may not commence or be completed as we expect. They may not be conducted successfully. Failure to commence or complete, or delays in, any of our planned clinical trials could delay or prevent the commercialization of our product candidates and harm our business and may adversely affect our future revenues and financial condition.

If we fail to keep pace with rapid technological change in the biotechnology and pharmaceutical industries, our product candidates could become obsolete, which may adversely affect our future revenues and financial condition.

Biotechnology and related pharmaceutical technology have undergone and are subject to rapid and significant change. We expect that the technologies associated with biotechnology research and development will continue to develop rapidly. Our future will depend in large part on our ability to maintain a competitive position with respect to these technologies. Any compounds, products or processes that we develop may become obsolete before we recover any expenses incurred in connection with developing such products, which may adversely affect our future revenues and financial condition.

If we are unable to protect our proprietary technology, we may not be able to compete as effectively and our business and financial prospects may be harmed.

Where appropriate, we seek patent protection for certain aspects of our technology. Patent protection may not be available for some of the drug product candidates we are developing. If we must spend significant time and money protecting our patents, designing around patents held by others or licensing, potentially for large fees, patents or other proprietary rights held by others, our business and financial prospects may be harmed.

The patent positions of biopharmaceutical products are complex and uncertain.

We own or license patent applications related to certain of our drug product candidates. However, these patent applications do not ensure the protection of our intellectual property for a number of reasons, including the following:

- We do not know whether our patent applications will result in issued patents. For example, we may not have developed a method for treating a disease before others developed similar methods.
- Competitors may interfere with our patent process in a variety of ways. Competitors may claim that they invented the claimed invention prior to us. Competitors may also claim that we are infringing on their patents and therefore cannot practice our technology as claimed under our patents, if issued. Competitors may also contest our patents, if issued, by showing the patent examiner that the invention was not original, was not novel or was obvious. In litigation, a competitor could claim that our patents, if issued, are not valid for a number of reasons. If a court agrees, we would lose that patent. As a company, we have no meaningful experience with competitors interfering with our patents or patent applications.
- Enforcing patents is expensive and may absorb significant time of our management. Management would spend less time and resources on developing drug product candidates, which could increase our operating expenses and delay product programs.
- Receipt of a patent may not provide much practical protection. If we receive a patent with a narrow scope, then it will be easier for competitors to design products that do not infringe on our patent.
- In addition, competitors also seek patent protection for their technology. Due to the number of patents in our field of technology, we cannot be certain that we do not infringe on those patents or that we will not infringe on patents granted in the future. If a patent holder believes our drug product candidate infringes on its patent, the patent holder may sue us even if we have received patent protection for our technology. If someone else claims we infringe on their technology, we would face a number of issues, including the following:

- Defending a lawsuit takes significant time and can be very expensive.
- If a court decides that our drug product candidate infringes on the competitor's patent, we may have to pay substantial damages for past infringement.
- A court may prohibit us from selling or licensing the drug product candidate unless the patent holder licenses the patent to us. The patent holder is not required to grant us a license. If a license is available, we may have to pay substantial royalties or grant cross licenses to our patents.
- Redesigning our drug product candidates so we do not infringe may not be possible or could require substantial funds and time.

It is also unclear whether our trade secrets are adequately protected. While we use reasonable efforts to protect our trade secrets, our employees or consultants may unintentionally or willfully disclose our information to competitors. Enforcing a claim that someone else illegally obtained and is using our trade secrets, like patent litigation, is expensive and time consuming, and the outcome is unpredictable. In addition, courts outside the U.S. are sometimes less willing to protect trade secrets. Our competitors may independently develop equivalent knowledge, methods and know-how. We may also support and collaborate in research

conducted by government organizations, hospitals, universities or other educational institutions. These research partners may be unwilling to grant us any exclusive rights to technology or products derived from these collaborations prior to entering into the relationship. If we do not obtain required licenses or rights, we could encounter delays in our product development efforts while we attempt to design around other patents or even be prohibited from developing, manufacturing or selling drug product candidates requiring these licenses. There is also a risk that disputes may arise as to the rights to technology or drug product candidates developed in collaboration with other parties.

If our agreements with employees, consultants, advisors and corporate partners fail to protect our intellectual property, proprietary information or trade secrets, it could have a significant adverse effect on us.

We have taken steps to protect our intellectual property and proprietary technology, by entering into confidentiality agreements and intellectual property assignment agreements with our employees, consultants, advisors and corporate partners. Such agreements may not be enforceable or may not provide meaningful protection for our trade secrets or other proprietary information in the event of unauthorized use or disclosure or other breaches of the agreements, and we may not be able to prevent such unauthorized disclosure. Monitoring unauthorized disclosure is difficult, and we do not know whether the steps we have taken to prevent such disclosure are, or will be, adequate. Furthermore, the laws of some foreign countries may not protect our intellectual property rights to the same extent as do the laws of the United States.

Risks Related to Our Common Stock

There are a substantial number of shares of our common stock eligible for future sale in the public market, and the issuance or sale of equity, convertible or exchangeable securities in the market, or the perception of such future sales or issuances, could lead to a decline in the trading price of our common stock.

Any issuance of equity, convertible or exchangeable securities, including for the purposes of financing acquisitions and the expansion of our business, may have a dilutive effect on our existing stockholders. In addition, the perceived risk associated with the possible issuance of a large number of shares of our common stock or securities convertible or exchangeable into a large number of shares of our common stock could cause some of our stockholders to sell their common stock, thus causing the trading price of our common stock to decline. Subsequent sales of our common stock in the open market or the private placement of our common stock or securities convertible or exchangeable into our common stock could also have an adverse effect on the trading price of our common stock. If our common stock price declines, it may be more difficult for us to or we may be unable to raise additional capital.

In addition, future sales of substantial amounts of our currently outstanding common stock in the public market, or the perception that such sales could occur, could adversely affect prevailing trading prices of our common stock, and could impair our ability to raise capital through future offerings of equity or equity-related securities. We cannot predict what effect, if any, future sales of our common stock, or the availability of shares for future sales, will have on the trading price of our common stock.

In May and June 2008, prior to our merger with Raptor Pharmaceuticals Corp. in 2009, pursuant to a securities purchase agreement for a private placement of units, Raptor Pharmaceuticals Corp. issued to investors in such private placement, 20,000,000 shares of its common stock and two-year warrants to purchase up to, in the aggregate, 10,000,000 shares of its common stock and to placement agents in such private placement, five-year warrants to purchase up to, in the aggregate, 2,100,000 shares of its common stock. On a post-merger basis, the 20,000,000 shares of Raptor Pharmaceuticals Corp.'s common stock, the two-year warrants to purchase up to, in the aggregate, 10,000,000 shares of Raptor Pharmaceuticals Corp.'s common stock and the five-year warrants to purchase up to, in the aggregate, 2,100,000 shares of Raptor Pharmaceuticals Corp.'s common stock, respectively, would be 4,662,468 shares of our common stock, two-year warrants to purchase up to, in the aggregate, 2,331,234 shares of our common stock and the five-year warrants to purchase up to, in the aggregate, 489,559 shares of our common stock, respectively.

In April 2009, in order to reflect then-current market prices, Raptor Pharmaceuticals Corp. notified the holders of warrants purchased in the May/June 2008 private placement that it was offering, in exchange for such warrants, new warrants to purchase its common stock at an exercise price of \$0.30 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$0.90 per share and original expiration date of May 21, 2010. On a post-merger basis, the warrants that were not exchanged prior to or on July 17, 2009 would be warrants to purchase shares of our common stock at an exercise price of \$3.86 per share and would continue to have an

expiration date of May 21, 2010. Raptor Pharmaceuticals Corp. received approximately \$2.6 million of proceeds from warrant exercises that resulted in the issuance of 8,715,000 shares of its common stock pursuant to the exchange described above. On a post-merger basis, the 8,715,000 shares of Raptor Pharmaceuticals Corp.'s common stock would be 2,031,670 shares of our common stock.

In August 2009, pursuant to a securities purchase agreement for a private placement of units, Raptor Pharmaceuticals Corp. issued to investors in such private placement, 7,456,250 shares of its common stock and two-year warrants to purchase up to, in the aggregate, 3,728,125 shares of its common stock and to placement agents in such private placement, a five-year warrant to purchase up to, in the aggregate, 556,500 shares of its common stock. On a post-merger basis, the 7,456,250 shares of Raptor Pharmaceuticals Corp.'s common stock, the two-year warrants to purchase up to, in the aggregate, 3,728,125 shares of Raptor Pharmaceuticals Corp.'s common stock and the five-year warrants to purchase up to, in the aggregate, 556,500 shares of Raptor Pharmaceuticals Corp.'s common stock, respectively, would be 1,738,226 shares of our common stock, two-year warrants to purchase up to, in the aggregate, 869,113 shares of our common stock and the five-year warrants to purchase up to, in the aggregate, 129,733 shares of our common stock, respectively.

On October 13, 2009, we filed a registration statement registering the resale of up to an aggregate of 5,557,865 shares of our common stock (including common stock issuable under warrants). Such registration statement was declared effective by the SEC on November 12, 2009.

In December 2009, we entered into a definitive securities purchase agreement or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors set forth on the signature pages thereto, collectively, the Direct Offering Investors, with respect to the offering of Units, whereby, on an aggregate basis, the Direct Offering Investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per Unit for aggregate gross proceeds of approximately \$7.5 million. Each Unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock. Units will not be issued or certificated. The shares of our common stock and the Warrants will be issued separately. The Series A Warrants are exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the fifth (5th) anniversary of the date of issue. The Series B Warrants are exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the eighteen (18) month anniversary of the date of issue. The Investor Warrants have a per share exercise price of \$2.45. In connection with this offering we paid a placement agent cash compensation equaled to 6.5% of the gross proceeds or \$487,183 plus a five-year warrant at an exercise price of \$2.50 per share for the purchase of up to 74,951 shares of our common stock, on the same terms as the investor warrants described above.

In April 2010, we entered into a \$15 million equity line facility with Lincoln Park Capital Fund, LLC, or LPC, which allows us to sell shares of our common stock every two days if our selling price to LPC is over \$1.50 per share. Cumulatively, as of August 13, 2010, we have sold approximately 2.2 million shares under the equity line raising approximately \$4.9 million in gross proceeds to us. We plan to continue to utilize, when available and if needed, the equity line to fund our future cash needs which could create additional pressure on our common stock price as LPC resells its shares of our common stock into the market. On April 23, 2010, we filed a registration statement on Form S-1 registering the resale by LPC of up to 4.5 million shares of our common stock that have been issued or may be issued to LPC under the equity line. Such registration statement was declared effective by the SEC on May 7, 2010. Although we have the right to sell additional shares of our common stock to LPC under the LPC

Purchase Agreement, we are restricted from making such sale under the 2010 Private Placement Purchase Agreement until the later of (i) November 10, 2010 or (ii) 30 days after the effective date of the registration statement of which this prospectus is a part.

In August 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share.

Our Chief Executive Officer, our Chief Financial Officer and our Board of Directors executed lock-up agreements in connection with the 2010 Private Placement pursuant to which, among other things, each such person is restricted from selling his

or her common stock of the Company. The aggregate of the lock-up agreements represent 935,405 shares, or approximately 3% of our outstanding common stock as of August 13, 2010 (taking into account the 4,897,614 shares of common stock sold in the 2010 Private Placement). The lock-up period expires the later of (i) November 10, 2010 or (ii) 30 days after the effective date of the registration statement of which this prospectus is a part. This means that these stockholders may have the ability to sell a substantial number of shares of common stock (relative to our average daily trading volume) in the public market in a short period of time after such expiration. Sales of a substantial number of shares of our common stock by such officers and directors in the public trading market, whether in a single transaction or a series of transactions, or the perception that these sales may occur, could also have a significant effect on volatility and the trading price of our common stock.

As of August 13, 2010 (taking into account the warrants to purchase up to 4,995,566 shares of our common stock issued in the 2010 Private Placement), there were (i) outstanding warrants to purchase 10,490,554 shares of our common stock at a weighted average exercise price of \$2.83 per share, (ii) outstanding options to purchase 1,251,067 shares of our common stock outstanding under our 2010 and 2006 Raptor stock option plans at a weighted-average exercise price of \$2.41, (iii) options to purchase 157,667 shares of our common stock outstanding under our TorreyPines Therapeutics stock option plans at a weighted-average exercise price of \$106.89 and (iv) 2,697,228 shares of our common stock available for issuance under our 2010 Raptor Pharmaceutical stock option plan. The shares issuable under our stock option plans will be available for immediate resale in the public market. The shares issuable under the warrants are available for immediate resale in the public market. The market price of our common stock could decline as a result of such resales due to the increased number of shares available for sale in the market.

Future milestone payments, as more fully set forth under "Contractual Obligations with Thomas E. Daley (as assignee of the dissolved Convivia, Inc.)" and "Contractual Obligations with Former Encode Securityholders" discussed in certain of our periodic filings with the SEC relating to our acquisition of the Convivia assets and merger with Encode will result in dilution. We may be required to make additional contingent payments of up to 699,369 shares of our common stock, in the aggregate, under the terms of our acquisition of Convivia assets and merger with Encode, based on milestones related to certain future marketing and development approvals obtained with respect to Convivia and Encode product candidates. The issuance of any of these shares will result in further dilution to our existing stockholders.

These stock issuances and other future issuances of common stock underlying unexpired and unexercised warrants have and will result in, significant dilution to our stockholders. In connection with other collaborations, joint ventures, license agreements or future financings that we may enter into in the future, we may issue additional shares of common stock or other equity securities, and the value of the securities issued may be substantial and create additional dilution to our existing and future common stockholders.

Because we do not intend to pay any cash dividends on our common stock, investors will benefit from an investment in our common stock only if it appreciates in value. Investors seeking dividend income or liquidity should not purchase shares of our common stock.

We have not declared or paid any cash dividends on our common stock since our inception. We anticipate that we will retain our future earnings, if any, to support our operations and to finance the growth and development of our business and do not expect to pay cash dividends in the foreseeable future. As a result, the success of an investment in

our common stock will depend upon any future appreciation in the value of our common stock. There is no guarantee that our common stock will appreciate in value or even maintain its current price. Investors seeking dividend income or liquidity should not invest in our common stock.

Our stock price is volatile, which could result in substantial losses for our stockholders, and the trading in our common stock may be limited.

Our common stock is quoted on the NASDAQ Capital Market. The trading price of our common stock has been and may continue to be volatile. Our operating performance does and will continue to significantly affect the market price of our common stock. We face a number of risks including those described herein, which may negatively impact the price of our common stock.

The market price of our common stock also may be adversely impacted by broad market and industry fluctuations regardless of our operating performance, including general economic and technology trends. The NASDAQ Capital Market has, from time to time, experienced extreme price and trading volume fluctuations, and the market prices of biopharmaceutical development companies such as ours have been extremely volatile. Market prices for securities of early-stage pharmaceutical, biotechnology and other life sciences companies have historically been particularly volatile and trading in such securities has

often been limited. 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 drug candidates;
- the results of ongoing preclinical studies and planned clinical trials of our preclinical drug 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 drug candidates;
- the initiation of, material developments in, or conclusion of litigation to enforce or defend any of our intellectual property rights;
- failure of any of our drug candidates, if approved, to achieve commercial success;
- 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 drug candidates;
- issues in manufacturing our drug candidates or any approved products;
- the loss of key employees;
- the introduction of technological innovations or new commercial products by our competitors;
- 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.

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 can result in substantial costs and diversion of management attention and resources, which could significantly harm our profitability and reputation.

The sale of our common stock to LPC may cause dilution and the sale of the shares of common stock acquired by LPC could cause the price of our common stock to decline.

In connection with entering into the LPC Purchase Agreement, we authorized the sale to LPC of up to 4,137,418 shares of our common stock and the issuance of an additional 362,582 shares of our common stock as a commitment fee. The number of shares ultimately offered for sale by LPC is dependent upon the number of shares purchased by LPC under the LPC Purchase Agreement. The purchase price for the common stock to be sold to LPC pursuant to the LPC Purchase Agreement will fluctuate based on the price of our common stock. All 4.5 million shares of our common stock which may be sold by us to LPC under the LPC Purchase Agreement are expected to be freely tradable. Depending upon market liquidity at the time, a sale of shares by LPC at any given time could cause the trading price of our common stock to decline. We can elect to direct purchases by LPC in our sole discretion but no sales to LPC may occur if the purchase price for our common stock under the Purchase Agreement is below \$1.50 per share and therefore, LPC may ultimately purchase all or some of the 4,137,418 shares of common stock. As of August 13, 2010, we have sold approximately 2.2 million shares to LPC under the LPC Purchase Agreement. After LPC has acquired such shares, it may sell all, some or none of such shares. Therefore, sales to LPC by us under the LPC Purchase Agreement may result in substantial dilution to the interests of other holders of our common stock. The sale of a substantial number of shares of our common stock, or anticipation of such sales, by LPC could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

The sale of our common stock and common stock underlying warrants to the 2010 Private Placement Investors could cause the price of our common stock to decline.

In connection with the 2010 Private Placement, we issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of common stock and warrants to purchase up to 4,897,614 shares of our common stock. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. In connection with the 2010 Private Placement, the Placement Agent was issued one warrant, with an exercise price of \$3.075 per share, to purchase 97,952 shares of our common stock. The warrant issued to the Placement Agent may not be exercised until the sixth month anniversary of the issuance date of August 12, 2010. The resale of all 9,893,180 shares which have been sold or upon exercise of the warrants may be sold by us to the 2010 Private Placement Investors and the Placement Agent is being regiserted pursuant to the registration statement of which this prospectus forms a part. Depending upon market liquidity at the time, a sale of shares under this offering at any given time could cause the trading price of our common stock to decline. Sales of our common stock to the 2010 Private Placement Investors and the

Placement Agent upon exercise of the warrants they received in connection with 2010 Private Placement by us may result in substantial dilution to the interests of other holders of our common stock. The sale of a substantial number of shares of our common stock under this offering, or anticipation of such sales, by the 2010 Private Placement Investors and the Placement Agent could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

Our stock is a penny stock. Trading of our stock may be restricted by the SEC's penny stock regulations and the FINRA's sales practice requirements, which may limit a stockholder's ability to buy and sell our stock.

Our common stock is a penny stock. The SEC has adopted Rule 15g-9 which generally defines "penny stock" to be any equity security that has a market price less than \$5.00 per share or an exercise price of less than \$5.00 per share, subject to certain exceptions. Our securities are covered by the penny stock rules, which impose additional sales practice requirements on broker-dealers who sell to persons other than established customers and institutional accredited investors. The penny stock rules require a broker-dealer, prior to a transaction in a penny stock not otherwise exempt from the rules, to deliver a standardized risk disclosure document in a form prepared by the SEC which provides information about penny stocks and the nature and level of risks in the penny stock market. The broker-dealer also must provide the customer with current bid and offer quotations for the penny stock, the compensation of the broker-dealer and its salesperson in the transaction and monthly account statements showing the market value of each penny stock held in the customer's account. The bid and offer quotations, and the broker-dealer and salesperson compensation information, must be given to the customer orally or in writing prior to effecting the transaction and must be given to the customer in writing before or with the customer's confirmation. In addition, the penny stock rules require that prior to a transaction in a penny stock not otherwise exempt from these rules, the broker-dealer must make a special written determination that the penny stock is a suitable investment for the purchaser and receive the purchaser's written agreement to the transaction. These disclosure requirements may have the effect of reducing the level of trading activity in the secondary market for the stock that is subject to these penny stock rules. Consequently, these penny stock rules may affect the ability of broker-dealers to trade our securities. We believe that the penny stock rules discourage investor interest in and limit the marketability of our common stock.

In addition to the "penny stock" rules promulgated by the SEC, the Financial Industry Regulatory Authority, or FINRA, has adopted rules that require that in recommending an investment to a customer, a broker-dealer must have reasonable grounds for believing that the investment is suitable for that customer. Prior to recommending speculative low priced securities to their non-institutional customers, broker-dealers must make reasonable efforts to obtain information about the customer's financial status, tax status, investment objectives and other information. Under interpretations of these rules, the FINRA believes that there is a high probability that speculative low priced securities will not be suitable for at least some customers. The FINRA requirements make it more difficult for broker-dealers to recommend that their customers buy our common stock, which may limit your ability to buy and sell our stock.

We can issue shares of preferred stock that may adversely affect the rights of a stockholder of our common stock.

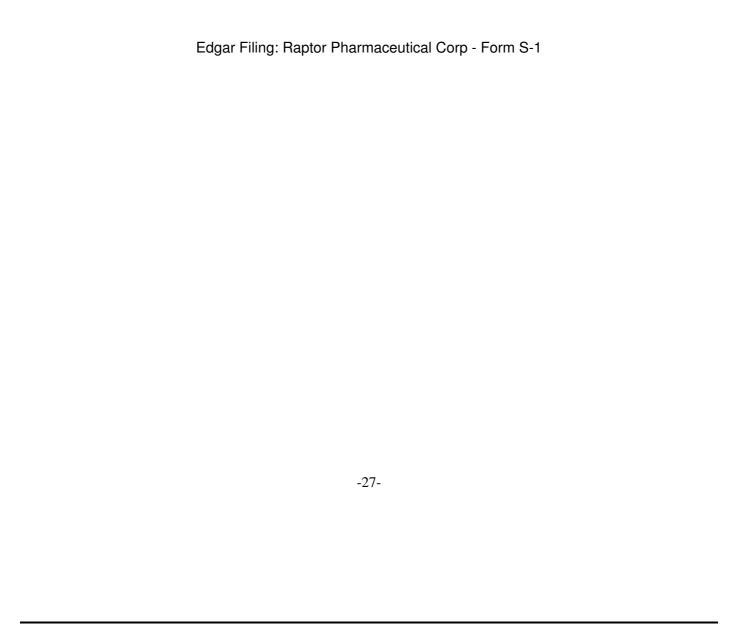
Our certificate of incorporation authorizes us to issue up to 15,000,000 shares of preferred stock with designations, rights and preferences determined from time-to-time by our board of directors. Accordingly, our board of directors is empowered, without stockholder approval, to issue preferred stock with dividend, liquidation, conversion, voting or other rights superior to those of stockholders of our common stock.

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

We are incorporated in Delaware. Certain anti-takeover provisions of Delaware law as currently in effect may make a change in control of our Company more difficult, even if a change in control would be beneficial to the stockholders. Our board of directors has the authority to issue up to 15,000,000 shares of preferred stock, none of which are issued or outstanding. The rights of holders of our common stock are subject to the rights of the holders of any preferred stock that may be issued. The issuance of preferred stock could make it more difficult for a third-party to acquire a majority of our outstanding voting stock. Our charter contains provisions that may enable our management to resist an unwelcome takeover attempt by a third party, including: a prohibition on actions by written consent of our stockholders; the fact that stockholder meetings must be called by our board of directors; and provisions requiring stockholders to provide advance notice of proposals. Delaware law also prohibits corporations from engaging in a business combination with any holders of 15% or more of their capital stock until the holder has held the stock for three years unless, among other possibilities, the board of directors approves the transaction. Our board of directors may use

these provisions to prevent changes in the management and control of our Company. Also, under applicable Delaware law, our board of directors may adopt additional anti-takeover measures in the future.

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.



FORWARD-LOOKING STATEMENTS

In this prospectus, in other filings with the SEC, and in press releases and other public statements by our officers throughout the year, we make or will make statements that plan for or anticipate the future. These "forward-looking statements," within the meaning of the Private Securities Litigation Reform Act of 1995, include statements about our future business plans and strategies, as well as other statements that are not historical in nature. These forward-looking statements are based on our current expectations.

In some cases, these statements can be identified by the use of terminology such as "believes," "expects," "anticipates," "plans," "may," "might," "will," "could," "should," "projects," "anticipates," "predicts," "intends," "continues," "e "opportunity" or the negative of these terms or other comparable terminology. All such statements, other than statements of historical facts, including our financial condition, future results of operations, projected revenues and expenses, business strategies, operating efficiencies or synergies, competitive positions, growth opportunities for existing intellectual properties, technologies, products, plans, and objectives of management, markets for our securities, and other matters, are about us and our industry that involve substantial risks and uncertainties and constitute forward-looking statements for the purpose of the safe harbor provided by Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act. Such forward-looking statements, wherever they occur, are necessarily estimates reflecting the best judgment of our senior management on the date on which they were made, or if no date is stated, as of the date of the filing made with the SEC in which such statements were made. You should not place undue reliance on these statements, which only reflect information available as of the date that they were made. Our business' actual operations, performance, development and results might differ materially from any forward-looking statement due to various known and unknown risks, uncertainties, assumptions and contingencies, including those described in the section titled "Risk Factors," and including, but not limited to, the following:

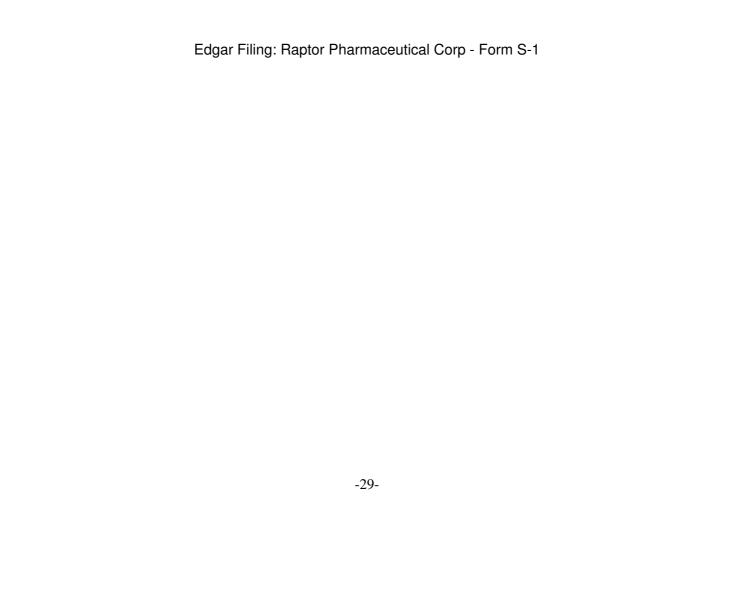
- our need for, and our ability to obtain, additional funds;
- uncertainties relating to clinical trials and regulatory reviews;
- our dependence on a limited number of therapeutic compounds;
- the early stage of the products we are developing;
- the acceptance of any of our future products by physicians and patients;
- competition and dependence on collaborative partners;
- loss of key management or scientific personnel;
- our ability to obtain adequate intellectual property protection and to enforce these rights;
- our ability to avoid infringement of the intellectual property rights of others; and
- the other factors and risks described under the section captioned "Risk Factors," as well as other factors not identified therein.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, the factors discussed in this prospectus, in other filings with the SEC and in press releases and other public statements by our officers throughout the year, could cause actual results or outcomes to differ materially and/or adversely from those expressed in any forward-looking statements made by us or on our behalf, and therefore we cannot guarantee future results, levels of activity, performance or achievements and you should not place undue reliance on any such forward-looking statements. We cannot give you any assurance that such forward-looking statements will prove to be accurate and such forward-looking events may not occur. In light of the significant uncertainties inherent in such forward-looking statements, you should not regard the inclusion of this information as a representation by us or any other person that the results or conditions described in those statements or our objectives and plans will be achieved.

All subsequent forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by the cautionary statements contained or referred to herein. Unless required by U.S. federal securities laws and the rules and regulations of the SEC, we do not undertake any obligation and disclaim any intention to update or release publicly any revisions to these forward-looking statements after the date of this prospectus to reflect later events or circumstances or to reflect the occurrence of unanticipated events or any other reason.

USE OF PROCEEDS

This prospectus covers shares of our common stock that may be offered and sold from time to time by the selling stockholders. We will receive no proceeds from the sale of shares of common stock in this offering by the selling stockholders. However, we may receive proceeds of up to approximately \$15.4 million to the extent that the warrants issued to the selling stockholders under the 2010 Private Placement are fully exercised for cash. The selling stockholders may purchase up to an aggregate of 4,995,566 shares of our common stock, at the exercise prices of \$3.075 per share. There can be no assurance that any of the warrants will be exercised by the selling stockholders. We expect to use proceeds, if any, from exercise of the warrants for general corporate purposes, including, without limitation, development and commercialization of our drug product candidates, the expansion of our drug product candidate pipeline, capital expenditures and for any other corporate purposes that we may specify in any prospectus supplement.



MARKET PRICE AND DIVIDEND INFORMATION

In connection with the closing of the 2009 Merger, our common stock commenced trading on the NASDAQ Capital Market on September 30, 2009, under the ticker symbol "RPTPD" with 18,822,162 shares outstanding. Effective October 27, 2009, our ticker symbol changed to "RPTP." There is no public trading market for our warrants. As of August 13, 2010, there were approximately 346 holders of record of our common stock and 29,960,196 shares of our common stock outstanding. The closing price for our common stock on August 19, 2010 was \$3.04.

The following table sets forth the range of high and low sales prices of our common stock for the quarterly periods indicated, as reported by NASDAQ. Such quotations represent inter-dealer prices without retail mark up, mark down or commission and may not necessarily represent actual transactions.

	High	Low	
Year Ending August 31, 2010:			
First Quarter (through September 29)*	\$ 7.14	\$ 3.23	
First Quarter (September 30 – November 30, 2009)	4.90	1.16	
Second Quarter (December 1, 2009 – February 28,	3.30	1.75	
2010)			
Third Quarter (March 1 – May 31, 2010)	3.88	1.41	
Fourth Quarter (June 1, 2010 – August 19, 2010)	3.57	2.37	
Year Ended August 31, 2009:			
First Quarter *	\$ 11.73	\$ 2.72	
Second Quarter *	5.95	2.72	
Third Quarter *	7.65	2.55	
Fourth Quarter	11.73	1.19	
Year Ended August 31, 2008:			
First Quarter *	\$	\$ 43.52	
	115.09		
Second Quarter *	50.15	30.60	
Third Quarter *	33.83	21.25	
Fourth Quarter *	27.03	8.84	

^{*} Market prices reported have been adjusted to give retroactive effect to material changes resulting from the reverse stock split that occurred immediately prior to the consummation of the 2009 Merger on September 29, 2009 by multiplying the reported sales prices for such periods by 17.

Dividends

We have never declared or paid cash dividends on our common stock and do not anticipate paying any cash dividends on our shares of common stock in the foreseeable future. We expect to retain future earnings, if any, for use in our development activities and the operation of our business. The payment of any future cash dividends will be subject to the discretion of our board of directors and will depend, among other things, upon our results of operations, financial condition, cash requirements, prospects and other factors that our board of directors may deem relevant. Additionally, our ability to pay future cash dividends may be restricted by the terms of any future financing.

DESCRIPTION OF BUSINESS

We believe that we are building a balanced pipeline of drug candidates that may expand the reach and benefit of existing therapeutics. Our product portfolio includes both candidates from our proprietary drug targeting platforms and in-licensed and acquired product candidates.

Our current pipeline includes three clinical development programs which we are actively developing. We also have three other clinical-stage product candidates, for which we are seeking business development partners but are not actively developing, and we have four preclinical product candidates we are developing, three of which are based upon our proprietary drug-targeting platforms.

Clinical Development Programs

Our three active clinical development programs are based on an existing therapeutic that we are reformulating for potential improvement in safety and/or efficacy and for application in new disease indications. These clinical development programs include the following:

- DR Cysteamine for the potential treatment of nephropathic cystinosis, or cystinosis, a rare genetic disorder:
- DR Cysteamine for the potential treatment of non-alcoholic steatohepatitis, or NASH, a metabolic disorder of the liver; and
- DR Cysteamine for the potential treatment of Huntington's Disease, or HD.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners:

- ConviviaTM for the potential management of acetaldehyde toxicity due to alcohol consumption by individuals with aldehyde dehydrogenase, or ALDH2 deficiency, an inherited metabolic disorder; and
- Tezampanel and NGX426, non-opioids for the potential treatment of migraine, acute pain, and chronic pain.

Preclinical Product Candidates

Our preclinical platforms consist of targeted therapeutics, which we are developing for the potential treatment of multiple indications, including liver diseases, neurodegenerative diseases and breast cancer. These preclinical platforms include the following:

- Our receptor-associated protein, or RAP, platform consists of: HepTideTM for the potential treatment of primary liver cancer and other liver diseases; and NeuroTransTM to potentially deliver therapeutics across the blood-brain barrier for treatment of a variety of neurological diseases.
- Our mesoderm development protein, or Mesd, platform consists of WntTideTM for the potential treatment of breast cancer.

We are also examining our glutamate receptor antagonists, tezampanel and NGX426, for the potential treatment of thrombosis disorder.

Future Activities

Over the next 12 months, we plan to conduct research and development activities based upon our DR Cysteamine clinical programs and continued development of our preclinical product candidates. We also plan to seek business development partners for our ConviviaTM product candidate and Tezampanel and NGX426. We may also develop future in-licensed technologies and

acquired technologies. A brief summary of our primary objectives in the next 12 months for our research and development activities is provided below. There can be no assurances that our research and development activities will be successful. In addition, if we do not raise additional funds, we may not be able to continue as a going concern.

Clinical Development Programs

We develop clinical-stage drug product candidates which are: internally discovered therapeutic candidates based on our novel drug delivery platforms and in-licensed or purchased clinical-stage products which may be new chemical entities in mid-to-late stage clinical development, currently approved drugs with potential efficacy in additional indications, and treatments that we could repurpose or reformulate as potentially more effective or convenient treatments for a drug's currently approved indications.

Development of DR Cysteamine for the Potential Treatment of Nephropathic Cystinosis or Cystinosis

Our DR Cysteamine product candidate is a proprietary delayed-release, enteric-coated microbead formulation of cysteamine bitartrate contained in a gelatin capsule. We are investigating DR Cysteamine for the potential treatment of cystinosis.

Immediate-release cysteamine bitartrate, a cystine-depleting agent, is currently the only U.S. Food and Drug Administration, or FDA, and the European Medicines Agency, or EMA, approved drug to treat cystinosis, a rare genetic disease. Immediate-release cysteamine is effective at preventing or delaying kidney failure and other serious health problems in cystinosis patients. However, we believe that patient compliance is challenging due to the requirement for frequent dosing and gastrointestinal side effects. Our DR Cysteamine for the potential treatment of cystinosis is designed to mitigate some of these difficulties. It is expected to be dosed twice daily, compared to the current every-six-hour dosing schedule. In addition, DR Cysteamine is designed to pass through the stomach and deliver the drug directly to the small intestine, where it is more easily absorbed into the bloodstream and may result in fewer gastrointestinal side effects.

The EMA and FDA granted orphan drug designation for DR Cysteamine for the treatment of cystinosis in 2010 and 2006, respectively.

In June 2009, we commenced our Phase 2b clinical trial of DR Cysteamine in cystinosis, in which we enrolled nine cystinosis patients with histories of compliance using the currently available immediate-release form of cysteamine bitartrate. The clinical trial, which was conducted at the University of California at San Diego, or UCSD, evaluated safety, tolerability, pharmacokinetics and pharmacodynamics of a single dose of DR Cysteamine in patients. In November 2009, we released the data from the study which indicated improved tolerability and the potential to reduce total daily dosage and administration frequency compared to immediate-release cysteamine bitartrate.

On June 28, 2010, we commenced our Phase 3 clinical trial, designed as a multi-center, randomized, crossover, outpatient study of the safety, tolerability, pharmacokinetics, or PK, and pharmacodynamics, or PD, of every 12-hour

DR Cysteamine compared to immediate-release cysteamine bitartrate in cystinosis patients. The design of our Phase 3 clinical trial is a result of discussions with the FDA under a Special Protocol Assessment, or SPA, process by which the FDA provided significant guidance on trial protocol design, clinical endpoints, and statistical analyses. The primary endpoint of our study is the steady-state white blood cell, or WBC, cystine levels of patients taking DR Cysteamine compared to immediate-release cysteamine bitartrate. Secondary endpoints are the safety and tolerability of DR Cysteamine and the comparability of steady-state PK of DR Cysteamine and immediate-release cysteamine bitartrate in cystinosis patients. Our Phase 3 clinical trial will involve up to nine sites in North America and Europe. We expect to initially enroll up to 30 patients. Patients who complete the nine-week clinical trial will be offered enrollment into our long-term follow-on study. We anticipate that our Phase 3 clinical trial will be completed in December 2010. If DR Cysteamine is approved by the FDA, we plan to commercialize DR Cysteamine in the U.S. by ourselves. However, we may enter into marketing partnerships for certain markets outside of the U.S.

Development of DR Cysteamine for the Potential Treatment of Non-Alcoholic Steatohepatitis or NASH

In October 2008, we commenced a clinical trial in collaboration with UCSD to investigate a prototype formulation of DR Cysteamine for the treatment of NASH in juvenile patients. In May 2010, we presented positive Phase 2a clinical trial results from our pilot study of delayed-release cysteamine bitartrate in 11 adolescent patients with NASH, a progressive form of liver disease believed to affect 5% to 11% of the U.S. population. The results were presented at the Digestive Disease Week 2010 conference in New Orleans, Louisiana on May 2, 2010. Our open-label Phase 2a clinical trial was conducted under a

collaboration agreement with UCSD at UCSD's General Clinical Research Center. Eligible patients with baseline levels of the liver enzymes alanine transaminase, or ALT, and aspartate aminotransferase, or AST, that were at least twice that of normal levels, were enrolled to receive twice-daily, escalating oral doses of up to 1,000 mg of delayed-release cysteamine bitartrate (a prototype of our DR Cysteamine) for six months, followed by a six-month post-treatment monitoring period.

Patients showed a marked decline in ALT levels during the treatment period with 7 of 11 patients achieving a greater than 50% reduction and 6 of 11 reduced to within normal range. AST levels also saw significant improvements with patients averaging 41% reduction by the end of the treatment phase. The reduction in liver enzymes was largely sustained during the 6 month post-treatment monitoring phase. Other important liver function markers showed positive trends. Levels of cytokeratin 18, a potential marker of disease activity in Non-alcoholic Fatty Liver Disease, or NAFLD, decreased by an average of 45%. Adiponectin levels increased by an average of 35% during the treatment period. Reduced adiponectin levels are thought to be a marker of the pathogenesis and progression of NASH. Body Mass Index, or BMI, did not change significantly during both the treatment and post-treatment phases. Delayed-release cysteamine bitartrate demonstrated a strong, favorable safety profile, with mean gastrointestinal symptom scores of 1.1 at baseline and 0.7 after 6 months of treatment using a rating system in which the maximum score of 14 indicates most severe gastrointestinal symptoms.

There are no currently approved drug therapies for NASH, and patients are limited to lifestyle changes such as diet, exercise and weight reduction to manage the disease. DR Cysteamine may provide a potential treatment option for patients with NASH.

Although NASH is most common in insulin-resistant obese adults with diabetes and abnormal serum lipid profiles, its prevalence is increasing among juveniles as obesity rates rise within this patient population. Although most patients are asymptomatic and feel healthy, NASH causes decreased liver function and can lead to cirrhosis, liver failure and end-stage liver disease.

We are currently working with our clinical trial material manufacturer to provide an appropriate formulation of DR Cysteamine for our next potential clinical trial in NASH and are preparing an IND submission in 2011 in anticipation of such clinical trial. We are in early stages of discussions to co-develop or partner the clinical development of DR Cysteamine in NASH.

Development of DR Cysteamine for the Potential Treatment of Huntington's Disease or HD

Huntington's Disease, or HD, is a fatal, inherited degenerative neurological disease affecting about 30,000 people in the U.S. and a comparable number of people in Europe. We are not aware of any treatment for HD other than therapeutics that minimize symptoms such as the uncontrollable movements and mood swings resulting from HD. We are collaborating with a French institution, CHU d' Angers, on a Phase 2 clinical trial investigating DR Cysteamine in HD patients, anticipated to begin in the third quarter of 2010. We are providing the clinical trial materials for the study, which is sponsored by CHU d' Angers and funded in part by a grant from the French government. Eight clinical sites in France are being set up by CHU d' Angers for a 96 patient, placebo-controlled, 18-month trial, followed by an open-label trial with all placebo patients rolling onto DR Cysteamine and all non-placebo patients continuing on DR

Cysteamine for up to another 18 months. The primary end point of the trial will be based upon the Unified Huntington's Disease Rating Scale, or UHDRS. We were granted Orphan Drug Designation in the U.S. by the FDA for cysteamine as a potential treatment for HD in 2008 and are in the process of applying for Orphan Drug Designation in the E.U.

In June 2010, we acquired an exclusive worldwide license to intellectual property related to the potential treatment of Huntington's Disease from the Weizmann Institute of Science in Israel and Niigata University in Japan. The Weizmann and Niigata patents cover the use of transglutaminase inhibitors, a class of molecules chemically similar to cysteamine, in the potential treatment of Huntington's Disease and other neurological disorders. These patents add to our portfolio of intellectual property related to our programs utilizing DR Cysteamine.

Other Clinical-Stage Product Candidates

We have three clinical-stage product candidates for which we are seeking partners.

ConviviaTM for Liver Aldehyde Dehydrogenase Deficiency

ConviviaTM is our proprietary oral formulation of 4-methylpyrazole, or 4-MP, intended for the potential treatment of acetaldehyde toxicity resulting from alcohol consumption in individuals with ALDH2 deficiency, which is an inherited disorder of the body's ability to breakdown ethanol, commonly referred to as alcohol intolerance. 4-MP is presently marketed in the U.S. and E.U. in an intravenous form as an anti-toxin. ConviviaTM is designed to lower systemic levels of acetaldehyde (a carcinogen) and reduce symptoms, such as tachycardia and flushing, associated with alcohol consumption by ALDH2-deficient individuals.

ConviviaTM is a capsule designed to be taken approximately 30 minutes prior to consuming an alcoholic beverage.

In 2008, we completed a Phase 2a dose escalation clinical trial of oral 4-MP with ethanol in ALDH2 deficient patients. The study results demonstrated that the active ingredient in ConviviaTM significantly reduced heart palpitations (tachycardia), which are commonly experienced by ALDH2 deficient people who drink, at all dose levels tested. The study also found that the 4-MP significantly reduced peak acetaldehyde levels and total acetaldehyde exposure in a subset of the study participants who possess specific genetic variants of the liver ADH and ALDH2 enzymes. We believe that this subset represents approximately one-third of East Asian populations.

In June 2010, we entered into an exclusive agreement with Uni Pharma Co., Ltd., or Uni Pharma to commercialize ConviviaTM in Taiwan. Under terms of the agreement, we will grant to Uni Pharma an exclusive license under all relevant patent applications, trademarks and future patents controlled by us to market ConviviaTM in Taiwan, with an option to expand the license to South Korea under the same terms. Uni Pharma will register ConviviaTM for drug licensure for existing indications and will conduct a clinical trial and register ConviviaTM for acetaldehyde toxicity resulting from ALDH2 deficiency. Uni Pharma will be responsible for marketing and sales activities for the commercialization of ConviviaTM in the markets covered under the license agreement. We continue to seek potential partners in other Asian countries to continue clinical development of ConviviaTM in those countries.

Tezampanel and NGX426 for the Potential Treatment of Migraine and Pain

Tezampanel and NGX426, the oral prodrug of tezampanel, are what we believe to be first-in-class compounds that may represent novel treatments for both pain and non-pain indications. Tezampanel and NGX426 are receptor antagonists that target and inhibit a specific group of receptors—the AMPA and kainate glutamate receptors—found in the brain and other tissues. While normal glutamate production is essential, excess glutamate production, either through injury or disease, has been implicated in a number of diseases and disorders. Published data show that during a migraine, increased levels of glutamate activate AMPA and kainate receptors, result in the transmission of pain and, in many patients, the development of increased pain sensitivity. By acting at both the AMPA and kainate receptor sites to competitively block the binding of glutamate, tezampanel and NGX426 have the potential to treat a number of diseases and disorders. These include chronic pain, such as migraine and neuropathic pain, muscle spasticity and a condition known as central sensitization, a persistent and acute sensitivity to pain.

Results of a Phase 2b clinical trial of tezampanel were released in October 2007. In the 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 2 trial in which tezampanel has been shown to have analgesic activity. Based on a review of the Phase 2 data, the FDA has agreed that tezampanel may move forward into a Phase 3 program for acute migraine.

In December 2008, results of NGX426 in a human experimental model of cutaneous pain, hyperalgesia and allodynia demonstrated a statistically significant reduction in spontaneous pain, hyperalgesia and allodynia compared to placebo following injections of capsaicin (i.e., chili oil) under the skin. In February 2009, results from a Phase 1 multiple dose trial of NGX426 showed that the compound is safe and well-tolerated in healthy male and female subjects when dosed once daily for five consecutive days.

In November 2009, we announced the presentation of clinical trial data on NGX426 at the 12th International Conference on the Mechanisms and Treatment of Neuropathic Pain. The results of the study led by Mark Wallace, M.D., Professor of Clinical Anesthesiology at the Center for Pain Medicine of the University of California at San Diego, suggested that NGX426 has the potential to be effective in a variety of neuropathic pain states, which are caused by damage to or dysfunction of the peripheral or central nervous system rather than stimulation of pain receptors.

We are currently seeking out-licensing partners for the migraine and pain programs and no development costs will be incurred for further development of these indications.

Preclinical Product Candidates

We are also developing a drug-targeting platform based on the proprietary use of RAP and Mesd. We believe that these proteins may have therapeutic applications in cancer, infectious diseases and neurodegenerative diseases, among others.

These applications are based on the assumption that our targeting molecules can be engineered to bind to a selective subset of receptors with restricted tissue distribution under particular conditions of administration. We believe these selective tissue distributions can be used to deliver drugs to the liver or to other tissues, such as the brain.

In addition to selectively transporting drugs to specific tissues, selective receptor binding constitutes a means by which receptor function might be specifically controlled, either through modulating its binding capacity or its prevalence on the cell surface. Mesd is being engineered for this latter application.

HepTide™ for Hepatocellular Carcinoma or HCC and Other Liver Diseases

Drugs currently used to treat primary liver cancer are often toxic to other organs and tissues. We believe that the pharmacokinetic behavior of RAP (i.e., the determination of the fate or disposition of RAP once administered to a living organism) may diminish the non-target toxicity and increase the on-target efficacy of attached therapeutics.

In preclinical studies of our radio-labeled HepTideTM (a variant of RAP), HepTideTM, our proprietary drug-targeting peptide was shown to distribute predominately to the liver. Radio-labeled HepTideTM, which was tested in a preclinical research model of HCC at the National Research Council in Winnipeg, Manitoba, Canada, showed 4.5 times more delivery to the liver than the radio-labeled control. Another study of radio-labeled HepTideTM in a non-HCC preclinical model, showed 7 times more delivery to the liver than the radio-labeled control, with significantly smaller amounts of radio-labeled HepTideTM delivery to other tissues and organs.

HCC is caused by the malignant transformation of hepatocytes, epithelial cells lining the vascular sinusoids of the liver, or their progenitors. HepTideTM has shown to bind to lipoprotein receptor-related protein, or LRP1, receptors on hepatocytes. We believe that the pharmacokinetics and systemic toxicity of a number of potent anti-tumor agents may be controlled in this way.

There are additional factors that favor the suitability of RAP as an HCC targeting agent:

• RAP is captured by hepatocytes with efficiency, primarily on first-pass.

• Late-stage HCC is perfused exclusively by the hepatic artery, while the majority of the liver is primarily perfused through the portal vein.

Studies have shown that the RAP receptor, LRP1, is well expressed on human HCC and under-expressed on non-cancerous, but otherwise diseased, hepatocytes. Also, LRP1 expression is maintained on metastasized HCC. These factors will favor delivery of RAP peptide-conjugated anti-tumor agents to tumor cells, whether in the liver or at metastasized sites.

We are evaluating conjugates between HepTideTM and other molecules for testing in vitro and in appropriate preclinical models for the potential treatment of HCC and other liver diseases.

NeuroTransTM for the Potential Treatment of Diseases Affecting the Brain

Hundreds of known genetic and neurodegenerative diseases affect the brain. Drugs often have difficulty reaching these disease-affected areas because the brain has evolved a protective barrier, commonly referred to as the blood-brain barrier.

Part of the solution to the medical problem of neurodegenerative diseases is the creation of effective brain targeting and delivery technologies. One of the most obvious ways of delivering therapeutics to the brain is via the brain's extensive vascular network. Treating these diseases by delivering therapeutics into the brain in a minimally invasive way, including through a natural receptor mediated transport mechanism called transcytosis, is a vision shared by many researchers and clinicians in the neuroscience and neuromedical fields.

NeuroTransTM is our proprietary RAP-based technology program to research the delivery of therapeutics across the blood-brain barrier. We believe our NeuroTransTM platform may provide therapies that will be safer, less intrusive and more effective than current approaches in treating a wide variety of brain disorders.

In preclinical studies, NeuroTransTM has been conjugated to a variety of protein drugs, including enzymes and growth factors, without interfering with the function of either fusion partner. Studies indicate that radio-labeled NeuroTransTM may be transcytosed across the blood-brain barrier and that fusions between NeuroTransTM and therapeutic proteins may be manufactured economically. Experiments conducted in collaboration with Stanford University in 2008 support the NeuroTransTM peptide's ability to enhance the transport of cargo molecules into the cells that line the blood-brain barrier.

In June 2009, we entered into a collaboration and licensing agreement with F. Hoffman — La Roche Ltd. and Hoffman—La Roche Inc., or Roche, to evaluate therapeutic delivery across the blood-brain barrier utilizing NeuroTransTM. Under the terms of the agreement, Roche has funded studies of select molecules attached to NeuroTransTM. The agreement provides Roche with an exclusive worldwide license to NeuroTransTM for use in the delivery of diagnostic and therapeutic molecules across the blood-brain barrier. Roche's and our scientists are actively collaborating on the project. We have received an initial upfront payment for the collaboration to cover our portion of the initial studies, and may earn development milestone payments and royalties in exchange for the licensing of NeuroTransTM to Roche.

WntTide[™] for the Potential Treatment of Cancer

Human Mesd is a natural inhibitor of the receptor LRP6. LRP6 has recently been shown to play a role in the progression of some breast tumors. Studies in the laboratory of Professor Guojun Bu, one of our scientific advisors, at the Washington University in St. Louis Medical School support the potential of Mesd and related peptides to target these tumors. These molecules and applications are licensed to us from Washington University.

WntTideTM is our proprietary, Mesd-based peptide that we are developing as a potential therapeutic to inhibit the growth and metastasis of tumors over-expressing LRP5 or LRP6. We have licensed the use of Mesd from Washington University for the potential treatment of cancer and bone density disorders.

In April 2009, Washington University conducted a preclinical study of WntTideTM in a breast cancer model which showed tumor inhibition. The results of this study were presented at the 2nd Annual Wnt Conference in Washington, D.C., in June 2009 and have been published in the peer-reviewed publication, the Proceedings of the National Academy of Sciences, on March 1, 2010. The paper, titled, "LRP6 Overexpression Defines a Class of Breast Cancer Subtype and Is a Target for Therapy," presented results that support the potential efficacy of WntTideTM as a targeted treatment for triple-negative breast cancers, a particularly aggressive and difficult-to-treat indication for recurrent and

metastatic disease. Abnormal Wnt activation, found in 40% to 60% of breast cancers, is often associated with triple-negative breast cancers. We are currently evaluating WntTideTM in a preclinical breast cancer model to inhibit the Wnt-signaling pathway designed to block cancers dependent upon signaling through LRP6, as well as other IND enabling studies.

Tezampanel and NGX426 for the Potential Treatment of Thrombotic Disorder

Research conducted at Johns Hopkins University, or JHU, by Craig Morrell, D.V.M., Ph.D., and Charles Lowenstein, M.D. demonstrated the importance of glutamate release in promoting platelet activation and thrombosis. Research shows that platelets treated with an AMPA/kainate receptor antagonist such as tezampanel or NGX426 are more resistant to glutamate-induced aggregation than untreated platelets. This identifies the AMPA/kainate receptors on platelets targeted by tezampanel or NGX426 as a new antithrombotic target with a different mechanism of action than Plavix®, aspirin or tPA. We have licensed the intellectual property of Tezampanel and NGX 426 for the treatment of thrombotic disorder from JHU and are in discussions with potential collaborators regarding the development of this product candidate.

Other Development Areas

Securing Additional and Complementary Technology Licenses from Others

We plan to establish additional research collaborations with prominent universities and research labs currently working on the development of potential targeting molecules, and to secure licenses from these universities and labs for technology resulting from the collaboration. No assurances can be made regarding our ability to establish such collaborations over the next 12 months, or at all. We intend to focus our in-licensing and product candidate acquisition activities on identifying complementary therapeutics, therapeutic platforms that offer a number of therapeutic targets, and clinical-stage therapeutics based on existing approved drugs in order to create proprietary reformulations to improve safety and efficacy or to expand such drugs' clinical indications through additional clinical trials. We may obtain these products through collaborations, joint ventures or through merger and/or acquisitions with other biotechnology companies.

Strategic Acquisitions

Reverse Merger with Raptor Pharmaceuticals Corp.

In July 2009, we, and our then wholly-owned subsidiary ECP Acquisition, Inc., a Delaware corporation, or merger sub, entered into an Agreement and Plan of Merger and Reorganization, or the 2009 Merger Agreement, with Raptor Pharmaceuticals Corp., a Delaware corporation. On September 29, 2009, on the terms and subject to the conditions set forth in the 2009 Merger Agreement, merger sub was merged with and into Raptor Pharmaceuticals Corp. and Raptor Pharmaceuticals Corp. survived such merger as our wholly-owned subsidiary. This merger is referred to herein as the 2009 Merger. Immediately prior to the 2009 Merger and in connection therewith, we effected a 1-for-17 reverse stock split of our common stock and changed our corporate name to "Raptor Pharmaceutical Corp."

As of immediately following the effective time of the 2009 Merger, Raptor Pharmaceuticals Corp.'s stockholders (as of immediately prior to such 2009 Merger) owned approximately 95% of our outstanding common stock and our stockholders owned approximately 5% of our outstanding common stock, in each case without taking into account any of our or Raptor Pharmaceuticals Corp.'s shares of common stock, respectively, that were issuable pursuant to outstanding options or warrants of ours or Raptor Pharmaceuticals Corp., respectively, outstanding as of the effective time of the 2009 Merger. Although Raptor Pharmaceuticals Corp. became our wholly-owned subsidiary, Raptor Pharmaceuticals Corp. was the "accounting acquirer" in the 2009 Merger and its board of directors and officers manage and operate the combined company. Our common stock currently trades on the NASDAQ Capital Market under the ticker symbol, "RPTP."

Purchase of ConviviaTM

In October 2007, prior to the 2009 Merger, Raptor Pharmaceuticals Corp. purchased certain assets of Convivia, Inc., or Convivia, including intellectual property, know-how and research reports related to a product candidate targeting

liver ALDH2 deficiency, a genetic metabolic disorder. Raptor Pharmaceuticals Corp. hired Convivia's chief executive officer and founder, Thomas E. (Ted) Daley, as the President of its clinical development division. In exchange for the assets related to the ALDH2 deficiency program, what we now call ConviviaTM, Raptor Pharmaceuticals Corp. issued to Convivia 200,000 shares of its common stock, an additional 200,000 shares of its common stock to a third party in settlement of a convertible loan between the third party and Convivia, and another 37,500 shares of its common stock in settlement of other obligations of Convivia. Mr. Daley, as the former sole stockholder of Convivia, may earn additional shares of our common stock based on certain triggering events or milestones related to the development of the Convivia assets. In addition, Mr. Daley may earn cash bonuses based on the same triggering events pursuant to his employment agreement. In January 2008, Mr. Daley earned a \$30,000 cash bonus pursuant to his employment agreement as a result of the milestone of our execution of a formulation agreement for manufacturing ConviviaTM with Patheon. In March 2008, Raptor Pharmaceuticals Corp. issued to Mr. Daley 100,000 shares of its common stock pursuant to the Convivia purchase agreement as a result of the milestone of our execution of an agreement to supply us with the active pharmaceutical ingredient for ConviviaTM and two \$10,000 cash bonuses pursuant to his employment agreement for reaching his six-month and one-year employment anniversaries. In October 2008, Raptor Pharmaceuticals Corp. issued to Mr. Daley 100,000 shares of its common stock valued at \$27,000 and a \$30,000 cash bonus as a result of fulfilling a clinical milestone. Due to the 2009 Merger, the 200,000, 200,000, 37,500, 100,000 and 100,000 shares of Raptor Pharmaceuticals Corp., respectively, described above, became 46,625, 46,625, 8,742, 23,312 and 23,312 shares of our common stock, respectively. In July 2010, we issued 11,656 shares of our restricted common stock and paid a \$10,000 cash bonus to Mr. Daley as result of the execution of the license agreement with Uni Pharma for the development of ConviviaTM in Taiwan.

Purchase of DR Cysteamine

In December 2007, prior to the 2009 Merger, through a merger between Encode Pharmaceuticals, Inc., or Encode, and Raptor Therapeutics, Raptor Pharmaceuticals Corp. purchased certain assets, including the clinical development rights to DR Cysteamine. Under the terms of and subject to the conditions set forth in the merger agreement, Raptor Pharmaceuticals Corp. issued 3,444,297 shares of its common stock to the stockholders of Encode, or Encode Stockholders, options, or Encode Options, to purchase up to, in the aggregate, 357,427 shares of its common stock to the optionholders of Encode, or Encode Optionholders, and warrants, or Encode Warrants, to purchase up to, in the aggregate, 1,098,276 shares of its common stock to the warrantholders of Encode, or Encode Warrantholders, and together with the Encode Stockholders and Encode Optionholders, referred to herein collectively as the Encode Securityholders, as of the date of such agreement. Due to the 2009 Merger, the 3,444,296 shares of Raptor Pharmaceuticals Corp.'s common stock, the 357,427 Encode Options and 1,098,276 Encode Warrants, respectively, became 802,946 shares of our common stock, Encode Options to purchase 83,325 shares of our common stock and Encode Warrants to purchase 256,034 shares of our common stock, respectively. The Encode Securityholders are eligible to receive up to an additional 559,496 shares of our common stock, Encode Options and Encode Warrants to purchase our common stock in the aggregate based on certain triggering events related to regulatory approval of DR Cysteamine, an Encode product program, if completed within the five year anniversary date of the merger agreement.

As a result of the Encode merger, we received the exclusive worldwide license to DR Cysteamine, referred to herein as the License Agreement, developed by clinical scientists at the UCSD School of Medicine. In consideration of the grant of the license, we are obligated to pay an annual maintenance fee of \$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we are obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated, among other things, to spend annually at least \$200,000 for the development of products (which we satisfied, as of August 31, 2009 by spending approximately \$4.1 million on such programs) pursuant to the License Agreement. To-date, we have paid \$270,000 in milestone payments to UCSD based upon the initiation of clinical trials in cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Regulatory Exclusivities

Orphan Drug Designation

We have been granted access to an Orphan Drug Designation from the FDA for use of DR Cysteamine to potentially treat cystinosis and the use of Cysteamine to potentially treat HD and Batten Disease. The Orphan Drug Act of 1983 generally provides incentives, including marketing exclusivity and tax benefits, to companies that undertake development and marketing of products to treat relatively rare diseases, which are defined as diseases for which fewer

than 200,000 persons in the U.S. would be likely to receive the treatment. A drug that receives orphan drug status is entitled to up to seven years of exclusive marketing in the U.S. for that indication. Equivalent European regulations would give us ten years of marketing exclusivity for that indication in Europe. DR Cysteamine has already been granted Orphan Drug Designation by the FDA and we plan to submit an orphan drug application in Europe. We cannot be sure that we will be granted orphan drug status or that it would prove advantageous. In addition, the testing and approval process will likely require a significant commitment of time, effort, and expense on our part. If we fail to obtain or maintain orphan drug exclusivity for some of our drug product candidates, our competitors may sell products to treat the same conditions and our results of operations and revenues will be affected.

Competition

Cystinosis

The only pharmaceutical product currently approved by the FDA and the EMA to treat cystinosis that we are aware of is Cystagon® (rapid release cysteamine bitartrate capsules), marketed in the U.S. by Mylan Pharmaceuticals, and by Recordati and Swedish Orphan International in markets outside of the U.S. Cystagon® was approved by FDA in 1994 and is the standard of care for cystinosis treatment.

While we believe that our DR Cysteamine formulation will be well received in the market due to what we believe will be reduced dose frequency and improved tolerability, if we receive marketing approval, we anticipate that Cystagon® will remain a well-established competitive product which may retain many patients, especially those for whom the dose schedule and tolerability do not pose significant problems.

We are not aware of any pharmaceutical company with an active program to develop an alternative therapy for cystinosis. There are companies developing and/or marketing products to treat symptoms and conditions related to, or resulting from cystinosis, but none developing products to treat the underlying metabolic disorder. Academic researchers in the U.S. and Europe are pursuing potential cures for cystinosis through gene therapy and stem cell therapy, as well as pro-drug approaches as alternatives to cysteamine bitartrate for cystinosis treatment. The development timeline for these approaches is many years.

Huntington's Disease

We are not aware of any currently available treatment alternatives for HD, although there are products available such as Haldol, Klonopin and Xenazine to treat uncontrollable movements and mood swings that result from the disease. There are several pharmaceutical companies pursuing potential cures and treatments for HD, as well as numerous academic- and foundation-sponsored research efforts.

Companies with HD product candidates in development include Medivation, Inc., Amarin, Eli Lilly & Co. and Pfizer. Several other companies have drug candidates in preclinical development. Additionally, nutritional supplements including creatinine and coenzyme Q10 have been investigated as potential treatments for HD. The Huntington Study Group sponsors numerous studies of potential therapies for HD, including coenzyme Q10 and the antibiotic minocycline.

NASH

We are not aware of any currently available treatment options for NASH. Weight loss, healthy diet, abstinence from alcohol and increased physical activity are typically suggested to slow the onset of NASH. There are numerous therapies being studied for NASH, including anti-oxidants (Vitamin E, betaine, Moexipril from Univasc), insulin

sensitizing agents (Actos® from Takeda Pharmaceuticals for type 2 diabetes, in an ongoing Phase 3 study for NASH sponsored by University of Texas) and drugs to improve blood flow (Trental® from Aventis for treatment of intermittent claudication, which is reported to have failed to meet endpoints in a Phase 2 study for NASH). Gilead Sciences is developing a pan-caspase inhibitor for NASH. Other products being studied for NASH include Byetta from Amylin, in an ongoing Phase 2/3 study for NASH; and siliphos, or milk thistle, in a UCSD Phase 2 study for NASH.

ALDH2 Deficiency

ALDH2 deficiency affects hundreds of millions of people worldwide and is especially prevalent in East Asian populations. The association of this metabolic disorder with serious health risks, including liver diseases and digestive tract cancers, has been documented in numerous peer-reviewed studies over the last 10 years. We are not aware of any pharmaceutical products currently approved for this indication, either in the U.S. or internationally. However, given the size of the potential patient population and the emerging awareness of this disorder as a serious health risk, we expect there are or will be other pharmaceutical companies, especially those with commercial operations in Asian countries, developing products to treat the symptoms of this condition. Many of these competitors may have greater resources, and existing commercial operations in the Asian countries which we expect will be the primary markets for this product.

Additionally, there are non-pharmaceutical products available such as supplements and traditional remedies, especially in some Asian countries, which are claimed to be effective in reducing the symptoms associated with ALDH2 deficiency and other physical reactions to ethanol consumption. Although we are not aware of any study which has demonstrated the efficacy of such non-pharmaceutical alternatives, these products may compete with our ALDH2 deficiency product candidate if it is approved for marketing.

Migraine

Triptans are the most commonly prescribed drugs for the treatment of moderate to severe migraine. There are currently seven triptans approved for use and Imitrex®, marketed by GlaxoSmithKline, dominates the market. Other triptans are: Zomig®, Maxalt®, Amerge®, FrovaTM, Axert®, and Relpax®. According to PhRMA's 2008 report, Medicines in Development for Neurologic Disorders, there are more than 30 companies seeking to develop compounds to treat migraine and pain disorders or to obtain additional indications to broaden the use of currently approved pain relieving prescription medications. This list includes most of the large pharmaceutical companies such as Abbott Laboratories, AstraZeneca, Eisai, Elan, Eli Lilly, GlaxoSmithKline, Merck, Pfizer, and Wyeth Pharmaceuticals as well as small and mid-sized biotechnology companies.

Pain

In the neuropathic pain market, we would compete with companies such as Pfizer, marketing Neurontin and Lyrica®, and Eli Lilly, marketing Cymbalta® in addition to opioids approved for treating neuropathic pain, off-label uses of products to treat neuropathic pain and generic products. Given the size of the neuropathic pain market, approximately \$3.5 billion in 2006 and expected to double by 2016, it is likely that most of the large pharmaceutical companies as well as many biotechnology companies will look to develop compounds to treat neuropathic pain. Since the licensing of tezampanel, Eli Lilly has continued development of more potent and specific molecules (e.g., iGluR5 antagonists) targeting the same receptors as tezampanel and NGX424 and based on the same chemistry (i.e., tetrahydroisoquinoline moiety) as tezampanel and NGX424. Eli Lilly's third generation candidate is currently in Phase 2 studies for osteoarthritis and peripheral neuropathy.

Primary Liver Cancer

Surgical resection of the primary tumor or liver transplantation remains the only curative options for HCC patients. The acute and tragic nature of this aggressive cancer and the widely preserved unmet medical need continues to attract a significant level of interest in finding ways of treating this disease. For example, there are currently over 140 ongoing clinical trials actively recruiting patients with HCC listed in the ClinicalTrials.gov website. Many of these trials are designed to evaluate ways of locally administering chemotherapeutics or various ways of performing surgical resections of the tumors. One drug that was approved in 2007 for treatment of inoperable HCC is currently the standard-of-care for this disease due to its claims of enhancing overall survival time. This enhancement has been determined to be even smaller within the Asian population of inoperable HCC patients. We believe that a number of biotechnology and pharmaceutical companies may have internal programs targeting the development of new therapeutics that may be useful in treating HCC in the future.

Hepatitis

It has been estimated that approximately 3% of the world's population is chronically infected with hepatitis C, which translates to nearly 200 million people infected worldwide. Due to the latency of hepatitis C virus, or HCV, infection and slow disease progression, along with a lag in awareness of the disease, the number of patients with HCV is increasing and expecting to peak in the next 20-30 years. Over 50,000 people die of HCV infection every year. Up to 75% of chronically infected individuals carry the genotype I strain of HCV. The most effective current treatment for chronic HCV infection is Interferon, but nearly 60% of patients infected with genotype 1 do not show a sustained viral reduction with Interferon treatment, and the remaining 40% of such genotype 1 HCV cases are without any therapy.

The significant number of interferon non-responders has created a need for second generation therapies and a large number of pharmaceutical companies have active therapeutic programs to meet the requirements of this large and growing market. There are currently 28 compounds in clinical development for the treatment of chronic HCV infection. A large number of these clinical compounds are small molecule antivirals being developed by pharmaceutical companies including Novartis, Kemin, Vertex and Migenix. In addition, over a dozen non-interferon immunomodulators are currently under clinical development by companies including SciClone, Schering-Plough, Chiron and Innogenetics. These compounds are designed to attack different

parts of the Hepatitis C virus and its ability to replicate or enhance the body's immune system to better recognize and destroy the virus. Most clinicians now believe that eventually these and future drugs will be used in combination to treat chronic HCV.

Brain Delivery

We believe we will be competing with other pharmaceutical and biotechnology companies that provide, or are attempting to develop product candidates to provide, remedies and treatments for brain and neurodegenerative diseases.

Three approaches are primarily used to solve the problem of reaching the brain with therapeutic compounds:

- Neurosurgery or invasive techniques.
- Pharmacological techniques, which include less than 2% of currently available drugs.
- Physiologically based techniques, such as transcytosis.

Invasive techniques include bone marrow transplants or implants of polymers with drugs imbedded in the material for slow release. These implants extend from the skull surface to deep into brain tissue sites and use a permeation enhancer. Mannitol induced osmotic shock that creates leaks in the blood-brain barrier allowing intravenous administered chemotherapeutics into the brain is used in the treatment of brain tumors, but is not appropriate for administration of drugs for chronic therapies. Companies active in developing treatments based on these invasive technologies include Alza Corporation, Ethypharm, Guilford Pharmaceuticals, Medtronic Inc., Neurotech, and Sumitomo Pharmaceutical.

Other invasive procedures utilize catheter-based delivery of the drug directly into the brain. This technique has proven useful in the treatment of brain tumors, but has not been successful in distributing drugs throughout the entire brain. Amgen Inc. recently conducted clinical trials for the treatment of Parkinson's disease using intrathecal delivery through the use of various catheter/pump techniques.

The physiological route is a popular approach to cross the blood-brain barrier via lipid mediated free diffusion or by facilitated transport. This is the most common strategy used for the development of new neuropharmaceuticals, but has experienced limited success as it requires that the drug have sufficient lipophilic or fat-soluble properties so that it can pass through lipid membranes. The current method of delivery by this route, however, is nonspecific to the brain and side effects are common since most organs are exposed to the drug. Furthermore, many of the potential lipophilic therapeutic molecules are substrates for the blood-brain barrier's multi-drug resistant proteins, which actively transport the therapeutic agent back into the blood. Consequently, large doses need to be used so that sufficient amounts of the drug reach the brain. These high doses can result in significant side effects as the drug is delivered to essentially all tissues of the body, which is extremely inefficient. Companies and organizations that are developing treatments based on various physiological approaches include Angiochem, AramGen Technology, to-BBB, Xenoport Inc., Bioasis, Oregon Health and Science University Neuro-oncology, Xenova Group Ltd., d-Pharm, Neurochem Inc., and Vasogen Inc.

Thrombotic Disorder

A number of anti-platelet drugs are already available on the market. These include the ADP receptor antagonist Plavix, the cyclooxygenase (and hence thromboxane) inhibitor, aspirin, and injectable integrin (IIb/IIIA) blockers such as Integrelin. Each drug has strengths and weaknesses (which predominantly involve excess bleeding). Since anti-thrombotic drugs are a multi-billion dollar market, it is likely that a large number of companies have additional therapies in development.

Because, many of our competitors have greater capital resources and larger overall research and development staffs and facilities, than us, there can be no assurances that we will be successful in competing in the areas discussed above. See the section under "Risk Factors" titled, "If our competitors succeed in developing products and technologies that are more effective than ours, or if scientific developments change our understanding of the potential scope and utility of our drug product candidates, then our technologies and future drug product candidates may be rendered less competitive."

Government Regulations of the Biotechnology Industry

Regulation by governmental authorities in the U.S. and foreign countries is a significant factor in the development, manufacture, and expected marketing of our drug product candidates and in our ongoing research and development activities. The nature and extent to which such regulation will apply to us will vary depending on the nature of any drug product candidates

developed. We anticipate that all of our drug product candidates will require regulatory approval by governmental agencies prior to commercialization.

In particular, human therapeutic products are subject to rigorous preclinical and clinical testing and other approval procedures of the FDA and similar regulatory authorities in other countries. Various federal statutes and regulations also govern or influence testing, manufacturing, safety, labeling, storage, and record-keeping related to such products and their marketing. The process of obtaining these approvals and the subsequent compliance with the appropriate federal statutes and regulations requires substantial time and financial resources. Any failure by us or our collaborators to obtain, or any delay in obtaining, regulatory approval could adversely affect the marketing of any of our drug product candidates, our ability to receive product revenues, and our liquidity and capital resources.

The FDA's Modernization Act codified the FDA's policy of granting "fast track" review of certain therapies targeting "orphan" indications and other therapies intended to treat severe or life threatening diseases and having potential to address unmet medical needs. Orphan indications are defined by the FDA as having a prevalence of less than 200,000 patients in the U.S. We anticipate that certain genetic diseases and primary liver cancer which could potentially be treated using our technology could qualify for fast track review under these revised guidelines. There can be no assurances, however, that we will be able to obtain fast track designation and, even with fast track designation, it is not guaranteed that the total review process will be faster or that approval will be obtained, if at all, earlier than would be the case if the drug product candidate had not received fast-track designation.

Before obtaining regulatory approvals for the commercial sale of any of our products under development, we must demonstrate through preclinical studies and clinical trials that the product is safe and efficacious for use in each target indication. The results from preclinical studies and early clinical trials might not be predictive of results that will be obtained in large-scale testing. Our clinical trials might not successfully demonstrate the safety and efficacy of any product candidates or result in marketable products.

In order to clinically test, manufacture, and market products for therapeutic use, we will have to satisfy mandatory procedures and safety and effectiveness standards established by various regulatory bodies. In the U.S., the Public Health Service Act and the Federal Food, Drug, and Cosmetic Act, as amended, and the regulations promulgated thereunder, and other federal and state statutes and regulations govern, among other things, the testing, manufacture, labeling, storage, record keeping, approval, advertising, and promotion of our current and proposed product candidates. Product development and approval within this regulatory framework takes a number of years and involves the expenditure of substantial resources.

The steps required by the FDA before new drug products may be marketed in the U.S. include:

- completion of preclinical studies;
- the submission to the FDA of a request for authorization to conduct clinical trials on an investigational new drug application, or IND, which must become effective before
 - clinical trials may commence;
- adequate and well-controlled Phase 1, Phase 2 and Phase 3 clinical trials to establish and confirm the safety and efficacy of a drug candidate;

- submission to the FDA of a new drug application, or NDA, for the drug candidate for marketing approval; and
- review and approval of the NDA by the FDA before the product may be shipped or sold commercially.

In addition to obtaining FDA approval for each product, each product manufacturing establishment must be registered with the FDA and undergo an inspection prior to the approval of an NDA. Each manufacturing facility and its quality control and manufacturing procedures must also conform and adhere at all times to the FDA's cGMP regulations. In addition to preapproval inspections, the FDA and other government agencies regularly inspect manufacturing facilities for compliance with these requirements. If, as a result of these inspections, the FDA determines that any equipment, facilities, laboratories or processes do not comply with applicable FDA regulations and conditions of product approval, the FDA may seek civil, criminal, or administrative sanctions and/or remedies against us, including the suspension of the manufacturing operations. Manufacturers must expend substantial time, money and effort in the area of production and quality control to ensure full technical compliance with these standards.

Preclinical testing includes laboratory evaluation and characterization of the safety and efficacy of a drug and its formulation. Preclinical testing results are submitted to the FDA as a part of an IND which must become effective prior to commencement of clinical trials. Clinical trials are typically conducted in three sequential phases following submission of an IND. Phase 1 represents the initial administration of the drug to a small group of humans, either patients or healthy volunteers, typically to test for safety (adverse effects), dosage tolerance, absorption, distribution, metabolism, excretion and clinical pharmacology,

and, if possible, to gain early evidence of effectiveness. Phase 2 involves studies in a small sample of the actual intended patient population to assess the efficacy of the drug for a specific indication, to determine dose tolerance and the optimal dose range and to gather additional information relating to safety and potential adverse effects. Once an investigational drug is found to have some efficacy and an acceptable safety profile in the targeted patient population, Phase 3 studies are initiated to further establish clinical safety and efficacy of the therapy in a broader sample of the general patient population, in order to determine the overall risk-benefit ratio of the drug and to provide an adequate basis for any physician labeling. During all clinical studies, we must adhere to Good Clinical Practice, or GCP, standards. The results of the research and product development, manufacturing, preclinical studies, clinical studies and related information are submitted in an NDA to the FDA.

The process of completing clinical testing and obtaining FDA approval for a new drug is likely to take a number of years and require the expenditure of substantial resources. If an application is submitted, there can be no assurance that the FDA will review and approve the NDA. Even after initial FDA approval has been obtained, further studies, including post-market studies, might be required to provide additional data on safety and will be required to gain approval for the use of a product as a treatment for clinical indications other than those for which the product was initially tested and approved. Also, the FDA will require post-market reporting and might require surveillance programs to monitor the side effects of the drug. Results of post-marketing programs might limit or expand the further marketing of the products. Further, if there are any modifications to the drug, including changes in indication, manufacturing process, labeling or a change in manufacturing facility, an NDA supplement might be required to be submitted to the FDA.

The rate of completion of any clinical trials will be dependent upon, among other factors, the rate of patient enrollment. Patient enrollment is a function of many factors, including the size of the patient population, the nature of the trial, the availability of alternative therapies and drugs, the proximity of patients to clinical sites and the eligibility criteria for the study. Delays in planned patient enrollment might result in increased costs and delays, which could have a material adverse effect on us.

We do not know whether our IND for future products or the protocols for any future clinical trials will be accepted by the FDA. We do not know if our clinical trials will begin or be completed on schedule or at all. Even if completed, we do not know if these trials will produce clinically meaningful results sufficient to support an application for marketing approval. The commencement of our planned clinical trials could be substantially delayed or prevented by several factors, including:

- a limited number of, and competition for, suitable patients with particular types of disease for enrollment in clinical trials:
- delays or failures in obtaining regulatory clearance to commence a clinical trial;
- delays or failures in obtaining sufficient clinical materials;
- delays or failures in reaching agreement on acceptable clinical trial agreement terms or clinical trial protocols with prospective sites; and
- delays or failures in obtaining Institutional Review Board, or IRB, approval to conduct a clinical trial at a prospective site.

The completion of our clinical trials could also be substantially delayed or prevented by several factors, including:

• slower than expected rates of patient recruitment and enrollment;

- failure of patients to complete the clinical trial;
- unforeseen safety issues;
- lack of efficacy during clinical trials;
- inability or unwillingness of patients or medical investigators to follow our clinical trial protocols;
- inability to monitor patients adequately during or after treatment; and
- regulatory action by the FDA for failure to comply with regulatory requirements.

Failure to comply with applicable FDA requirements may result in a number of consequences that could materially and adversely affect us. Failure to adhere to approved trial standards and GCPs in conducting clinical trials could cause the FDA to place a clinical hold on one or more studies which would delay research and data collection necessary for product approval. Noncompliance with GCPs could also have a negative impact on the FDA's evaluation of an NDA. Failure to adhere to GMPs and other applicable requirements could result in FDA enforcement action and in civil and criminal sanctions, including but not limited to fines, seizure of product, refusal of the FDA to approve product approval applications, withdrawal of approved applications, and prosecution.

Whether or not FDA approval has been obtained, approval of a product by regulatory authorities in foreign countries must be obtained prior to the commencement of marketing of the product in those countries. The requirements governing the conduct of clinical trials and product approvals vary widely from country to country, and the time required for approval might be longer or shorter than that required for FDA approval. Although there are some procedures for unified filings for some European countries, in general, each country at this time has its own procedures and requirements. There can be no assurance that any foreign approvals would be obtained.

In most cases, if the FDA has not approved a drug product candidate for sale in the U.S., the drug product candidate may be exported for sale outside of the U.S. only if it has been approved in any one of the following: the European Union, Canada, Australia, New Zealand, Japan, Israel, Switzerland and South Africa. Specific FDA regulations govern this process.

In addition to the regulatory framework for product approvals, we and our collaborative partners must comply with federal, state, and local laws and regulations regarding occupational safety, laboratory practices, the use, handling and disposition of radioactive materials, environmental protection and hazardous substance control, and other local, state, federal and foreign regulation. All facilities and manufacturing processes used by third parties to produce our drug candidates for clinical use in the United States must conform with cGMPs. These facilities and practices are subject to periodic regulatory inspections to ensure compliance with cGMP requirements. Their failure to comply with applicable regulations could extend, delay, or cause the termination of clinical trials conducted for our drug candidates. The impact of government regulation upon us cannot be predicted and could be material and adverse. We cannot accurately predict the extent of government regulation that might result from future legislation or administrative action.

Scientific Advisory Board

The following describes the background of our Scientific Advisory Board.

Stephen C. Blacklow, M.D., Ph.D. Over the last ten years, Dr. Blacklow's research team has achieved international recognition both for their mechanistic and structural studies of proteins of the LDL receptor family, and for their work on the structure and function of human Notch proteins. Recently, Dr. Blacklow's team determined the structure of a RAP d3- receptor complex by X-ray crystallography. Dr. Blacklow graduated from Harvard College summa cum laude in 1983, and received his M.D. and Ph.D. in bioorganic chemistry from Harvard University in 1991. Dr. Blacklow is a board-certified pathologist and an Associate Professor of Pathology at Harvard Medical School where he is the Director of the Harvard M.D.-Ph.D. program, basic sciences track. He has directed a research laboratory at the Brigham and Women's Hospital, a teaching affiliate of the Harvard Medical School, since 1998, and he will be joining the Department of Cancer Biology at the Dana Farber Cancer Institute in 2010.

Guojun Bu, Ph.D. Guojun Bu, Ph.D., is a molecular and cell biologist and a leader in the field of the LDL receptor family. Dr. Bu obtained his undergraduate degree from the Beijing Normal University in China. He then studied biochemistry and molecular biology in the Department of Biochemistry at Virginia Tech where he received his Ph.D. Dr. Bu moved to the Washington University School of Medicine for a postdoctoral training in cell biology where he later became a member of the faculty. He is currently Professor of Pediatrics, and of Cell Biology and Physiology.

Among the numerous awards that he has received, Dr. Bu has been an Established Investigator of the American Heart Association and a recipient of a Zenith Fellows Award from the Alzheimer's Association. He currently serves as an Editorial Board member for the Journal of Biological Chemistry and Journal of Lipid Research, and is the Editor-in-Chief of Molecular Neurodegeneration.

Ranjan Dohil, M.D. Ranjan Dohil, M.D., is Professor of Pediatrics at the University of California, San Diego, within the Division of Gastroenterology, Hepatology and Nutrition. An interest in childhood acid-peptic disorders led Dr. Dohil to study patients with cystinosis taking cysteamine. He has published the results of a number of studies trying to better understand the pharmacokinetics of cysteamine with the intent of developing a new formulation of cystemaine that would result in an improved quality of life for patients with cystinosis. Dr. Dohil also has a research interest in eosinophilic esophagitis, a condition that over the past few years has increased in incidence. Within this field, his work has led to the development of a treatment that is becoming more widely used. Dr. Dohil undertook his medical training at the University of Wales College of Medicine in Cardiff, U.K. He has served as a physician in many hospitals over his career including the University Hospital of Wales in Cardiff, U.K., the British Columbia's Children's Hospital in Vancouver, Canada and at St. Bartholemew and The London Medical School.

Jerry Schneider, M.D. Jerry Schneider, M.D. is Research Professor of Pediatrics and Dean for Academic Affairs Emeritus at the University of California, San Diego (UCSD) School of Medicine. He also serves as a member of the Board of Directors and Chair of the Scientific Review Board for the Cystinosis Research Foundation. Over the course of his distinguished

career, Dr. Schneider has been actively involved in the study of metabolic diseases. An expert on the diagnosis and treatment of cystinosis, Dr. Schneider has published over 150 papers on cystinosis and related subjects over the past 40 years. Since 1969 he has been associated with the UCSD School of Medicine in both academic and research capacities. Dr. Schneider earned his M.D. from Northwestern University. He received postgraduate training at Johns Hopkins University, the National Institutes of Health (NIH), and the Centre de Genetique Moleculaire, Gif-sur-Yvette, France. He was also a Guggenheim Fellow and a Fogarty Senior Fellow at the Imperial Cancer Research Fund Laboratories in London, England.

Sam Teichman, M.D., FACC, FACP Sam Teichman, M.D., is an independent consultant in the area of strategic drug discovery and development. He has worked on over 40 medical products in various stages of development from the earliest identification of leads in research to supporting commercial-stage products. Most recently, Dr. Teichman served as Vice President and Chief Development Officer at ARYx Therapeutics, where he was involved in identifying and advancing three products from the research stage into clinical development. During the past 20 years, Dr. Teichman has held senior level executive positions at Genentech, Medco Research (now part of King Pharmaceuticals), Glycomed (now part of Ligand Pharmaceuticals), and Mimetix. He has provided scientific advisory services and has acted in an interim executive role for numerous early-stage and established biotechnology companies. Dr. Teichman holds an M.D. from Columbia University and a B.S. in Chemistry from Columbia College, Columbia University. He is board certified in Internal Medicine and Cardiology. Dr. Teichman is a Fellow of the American College of Cardiology (FACC) and the American College of Physicians (FACP). Dr. Teichman served as Associate Clinical Professor of Medicine at University of California in San Francisco from 1990 to 2001. He has more than 40 original publications, reviews and abstracts published in peer-reviewed and invited medical journals.

Legal Proceedings

We know of no material, active or pending legal proceedings against us, nor are we involved as a plaintiff in any material proceedings or pending litigation. There are no proceedings in which any of our directors, officers or affiliates, or any registered or beneficial stockholders are an adverse party or have a material interest adverse to us.

Research and Development

We are a research and development company and our plan is to focus our efforts in the discovery, research, preclinical and clinical development of our RAP based platforms, complementary technologies and clinical drug candidates to provide therapies that we believe will be safer, less intrusive, and more effective than current approaches in treating a wide variety of brain disorders and neurodegenerative diseases, genetic disorders and cancer. During the period from September 8, 2005 (inception of Raptor Pharmaceuticals Corp.) to May 31, 2010, we incurred approximately \$21.1 million (\$6.6 million and \$5.6 million for the years ended August 31, 2009 and 2008, respectively) in research and development costs.

Please see the sections titled, "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Description of Business" in this prospectus for our planned research and development activities for the twelve months subsequent to May 31, 2010.

Compliance with Environmental Laws

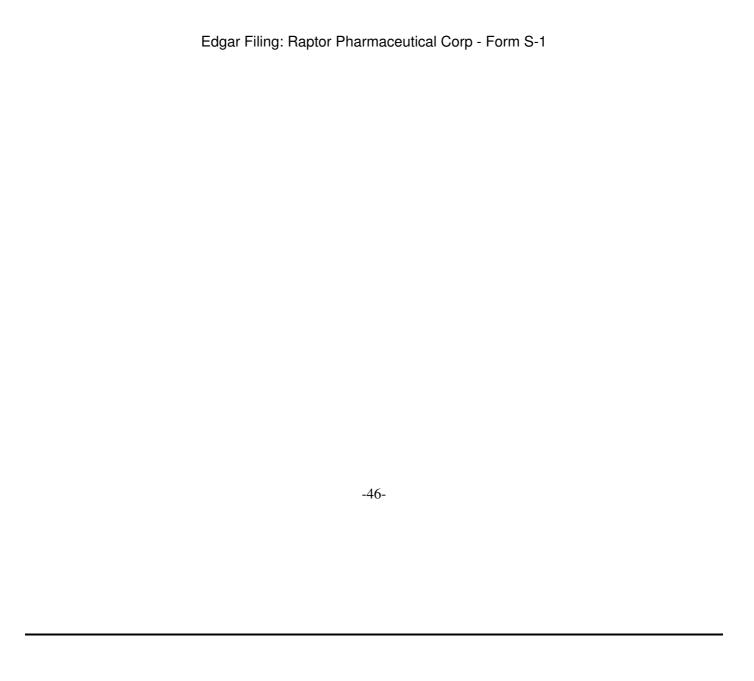
We estimate the annual cost of compliance with environmental laws, comprised primarily of hazardous waste removal, will be approximately \$5,000.

Employees

We presently have eleven full time employees, including five executives, one scientist, one program director, one clinical operations director, one senior manager in our regulatory department, one clinical development assistant in our research and development department and one senior manager in our finance department. Based on our current plan, over the next 12 month period, we anticipate hiring one or two commercial operations specialists in preparation for the commercial launch of DR Cysteamine for cystinosis. We also plan to supplement our human resources needs through consultants and contractors as needed.

Facilities

Our primary offices are located at 9 Commercial Blvd., Suite 200, Novato, CA 94949. Our phone number is (415) 382-8111 and our facsimile number is (415) 382-1368. Our website is located at www.raptorpharma.com.



SELECTED HISTORICAL CONSOLIDATED FINANCIAL AND OPERATING INFORMATION FOR RAPTOR

The following table shows selected historical consolidated financial and operating information for, and as of the end of, each of the periods indicated and should be read in conjunction with the information in the sections titled, "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Description of Business" and our consolidated financial statements and the corresponding notes to those consolidated financial statements included elsewhere in this prospectus. The following tables set forth our consolidated balance sheet data as of May 31, 2010 (unaudited), and as of August 31, 2009, 2008, 2007 and 2006, and our consolidated statements of operations data for the nine months ended May 31, 2010 and 2009 (unaudited), the years ended August 31, 2009, 2008 and 2007, for the period from September 8, 2005 (inception) to August 31, 2006 and for the cumulative period from September 8, 2005 (inception) to May 31, 2010.

For the nine month periods from

					Fo	or the year ended
	September 1, 2009 to May 31, 2010		September 1, 2008 to May 31, 2009		August 31, 2009	
Revenues:	\$	-	\$	-	\$	-
Operating expenses:						
General and administrative		2,926,960		1,935,612		2,687,993
Research and development		6,271,997		5,369,922		6,570,119
Total operating expenses		9,198,957		7,305,534		9,258,112
Loss from operations		(9,198,957)		(7,305,534)		(9,258,112)
Interest income		15,897		32,930		36,744
Interest expense		(2,649)		(1,876)		(2,526)
Adjustment to fair value of						
common stock warrants		(5,388,641)		-		-
Net loss	\$	(14,574,350)	\$(7,274,480)		\$(9,223,894)	
Loss per share from operations:						
Basic and diluted	\$	(0.44)	\$	(0.52)	\$	(0.64)
Net loss per share:						
Basic and diluted	\$	(0.69)	\$	(0.52)	\$	(0.64)
Weighted average shares						
outstanding used to compute:						
Basic and diluted		20,999,659		14,083,388		14,440,254

						For the period	
						from	
					Se	eptember 8,	
						2005	
	Fo	r the year	For the year		(iı	(inception) to	
		ended	ended		I	August 31,	
	Augı	ıst 31, 2008	August 31, 2007			2006	
Revenues:	\$	_	\$	<u> </u>	\$		
Operating expenses:							
General and administrative		2,229,140	1,529,028			510,079	
Research and development		5,558,871	2,246,057			499,238	
In-process research and							
development		240,625	 -				
Total operating expenses		8,028,636		3,775,085		1,009,317	
Loss from operations		(8,028,636)		(3,775,085)		(1,009,317)	
Interest income		77,871		143,760		43,528	
Interest expense		(103,198)	(751)			(3,461)	
Net loss		\$					
		(8,053,963)	\$	(3,632,076)	\$	(969,250)	
Loss per share from operations:							
Basic and diluted	\$	(0.81)	\$	(0.49)	\$	(0.33)	
Net loss per share:							
Basic and diluted	\$	(0.81)	\$	(0.49)	\$	(0.33)	
Weighted average shares							
outstanding used to compute:							
Basic and diluted		9,893,612		7,342,872		2,912,976	

	For the period from September 8, 2005 (inception) to May 31, 2010		
Revenues:	\$	_	
Operating expenses:			
General and administrative		9,883,200	
Research and development		21,146,281	
In-process research and development		240,625	
Total operating expenses		31,270,106	
Loss from operations		(31,270,106)	
Interest income		317,800	
Interest expense		(112,586)	
		(5,388,641)	
Net loss	9	(36,453,533)	

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	May 31,				
	2010				
	(unaudited)		Augus		
		2009	2008	2007	2006
Balance Sheet Data:					
Cash and cash equivalents	\$3,484,913	\$3,701,787	\$7,546,912	\$2,627,072	\$3,648,538
Non-cash warrant liability	7,304,652			_	_
Working capital (deficit)	(4,815,282)	2,739,104	6,659,226	2,493,651	3,598,428
Total assets	10,857,559	6,578,904	10,620,770	3,290,925	4,305,582
Long-term portion of					
capital lease					
obligations	3,104	6,676	_	2,302	4,801
Total liabilities	8,433,857	1,075,613	1,003,280	332,816	158,806
Total stockholders' equity	2,423,702	5,502,961	9,617,490	2,958,109	4,146,776

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion in conjunction with our condensed consolidated financial statements, and the notes to such condensed consolidated financial statements included elsewhere in this prospectus. All references to "the Company", "we", "our" and "us" include the activities of Raptor Pharmaceutical Corp. and its wholly-owned subsidiaries Raptor Pharmaceuticals Corp., TPTX, Inc., Raptor Discoveries Inc. (f/k/a Raptor Pharmaceutical Inc.), or Raptor Discoveries, and Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), or Raptor Therapeutics. This "Management's Discussion and Analysis of Financial Condition and Results of Operations" section contains forward-looking statements. Please see "Forward-Looking Statements" for a discussion of the uncertainties, risks and assumptions associated with these statements. Our actual results and the timing of certain events could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including those discussed below and elsewhere in this prospectus, particularly under the heading "Risk Factors."

Application of Critical Accounting Policies

Our condensed consolidated financial statements and accompanying notes are prepared in accordance with generally accepted accounting principles used in the U.S. Preparing financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenue and expenses. These estimates and assumptions are affected by management's application of accounting policies. We believe that understanding the basis and nature of the estimates and assumptions involved with the following aspects of our consolidated financial statements is critical to an understanding of our consolidated financial position.

We believe the following critical accounting policies require us to make significant judgments and estimates in the preparation of our condensed consolidated financial statements.

Fair Value of Financial Instruments

The carrying amounts of certain of our financial instruments including cash and cash equivalents, prepaid expenses, accounts payable, accrued liabilities and capital lease liability approximate fair value due to their short maturities.

Cash and Cash Equivalents

We consider all highly liquid investments with original maturities of three months or less to be cash equivalents.

Intangible Assets

Intangible assets include the intellectual property and other rights relating to DR Cysteamine, to the RAP technology and to the out-license and the rights to NGX 426 acquired in the 2009 Merger. The intangible assets related to DR Cysteamine and the RAP technology are amortized using the straight-line method over the estimated useful life of 20

years, which is the life of the intellectual property patents. The 20 year estimated useful life is also based upon the typical development, approval, marketing and life cycle management timelines of pharmaceutical drug products. The intangible assets related to the out-license will be amortized using the straight-line method over the estimated useful life of 16 years, which is the life of the intellectual property patents. The intangible assets related to NGX 426, which has been classified as in-process research and development, will not be amortized until development is completed.

Goodwill

Goodwill represents the excess of the value of the purchase consideration over the identifiable assets acquired in the 2009 Merger. Goodwill will be reviewed annually, or when an indication of impairment exists, to determine if any impairment analysis and resulting write-down in valuation is necessary.

Fixed Assets

Fixed assets, which mainly consist of leasehold improvements, lab equipment, computer hardware and software and capital lease equipment, are stated at cost. Depreciation is computed using the straight-line method over the related estimated useful lives, except for leasehold improvements and capital lease equipment, which are depreciated over the shorter of the useful

life of the asset or the lease term. Significant additions and improvements that have useful lives estimated at greater than one year are capitalized, while repairs and maintenance are charged to expense as incurred.

Impairment of Long-Lived Assets

We evaluate our long-lived assets for indicators of possible impairment by comparison of the carrying amounts to future net undiscounted cash flows expected to be generated by such assets when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. Should an impairment exist, the impairment loss would be measured based on the excess carrying value of the asset over the asset's fair value or discounted estimates of future cash flows. We have not identified any such impairment losses to date.

Common Stock Warrant Liabilities

The warrants we issued in our December 2009 equity financing contain a conditional obligation that may require us to transfer assets to repurchase the warrants upon the occurrence of potential future events. Under the Financial Accounting Standards Board, or FASB, Accounting Standards Codification, or ASC, Topic 480, Distinguishing Liabilities from Equity, or ASC 480, a financial instrument that may require the issuer to settle the obligation by transferring assets is classified as a liability. Therefore, we have classified the warrants as liabilities and will mark them to fair value at each period end. The warrants issued in the 2010 Private Placement contain a cash-out provision which may be triggered upon request by the warrant holders if Raptor is acquired or upon the occurrence of certain other fundamental transactions involving the Company. This provision requires these warrants to be classified as liabilities and will be marked to market at each period end commencing on August 31, 2010.

Marking-to-Market

The warrants to purchase our common stock issued in our December 2009 equity financing are classified as liabilities and the warrants to purchase our common stock in our 2010 Private Placement will be classified as liabilities under ASC 480 and are or will be, therefore, re-measured at the end of every reporting period with the change in value reported in our condensed consolidated statements of operations.

Income Taxes

Income taxes are recorded under the liability method, under which deferred tax assets and liabilities are determined based on the difference between the financial statement and tax bases of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to affect taxable income. Valuation allowances are established when necessary to reduce deferred tax assets to the amount expected to be realized.

Research and Development

We are an early development stage company. Research and development costs are charged to expense as incurred. Research and development expenses include scientists' salaries, lab collaborations, preclinical studies, clinical trials, clinical trial materials, regulatory and clinical consultants, lab supplies, lab services, lab equipment maintenance and small equipment purchased to support the research laboratory, amortization of intangible assets and allocated executive, human resources and facilities expenses.

In-Process Research and Development

Prior to September 1, 2009, the Company recorded in-process research and development expense for a product candidate acquisition where there is not more than one potential product or usage for the assets being acquired. Upon the adoption of the revised guidance on business combinations, effective September 1, 2009, the fair value of acquired in-process research and development is capitalized and tested for impairment at least annually. Upon completion of the research and development activities, the intangible asset is amortized into earnings over the related product's useful life. The Company reviews each product candidate acquisition to determine the existence of in-process research and development.

Stock-Based Compensation

In February 2010, our Board of Directors approved, and in March 2010 our stockholders approved, our 2010 Equity Incentive Plan, or the 2010 Plan, to grant up to an aggregate of 3,000,000 stock options or restricted stock or restricted stock units over the ten year life of the 2010 Plan. Our board of directors has determined not to make any new grants under any of our former plans, but rather under the new 2010 Plan.

In May 2006, Raptor Pharmaceuticals Corp.'s stockholders approved the 2006 Equity Compensation Plan, as amended, referred to herein as the 2006 Plan. The 2006 Plan's term is ten years and allows for the granting of options to employees, directors and consultants. Effective as of the effective time of the 2009 Merger, we assumed the outstanding stock options of Raptor Pharmaceuticals Corp. granted under the 2006 Plan. Such assumed options are subject to the terms of the 2006 Plan and, in each case, are also subject to the terms and conditions of an incentive stock option agreement, non-qualified stock option agreement or other option award, as the case may be, issued under such 2006 Plan. Prior to the 2009 Merger, and subject to it becoming effective, our board of directors adopted the 2006 Plan such that the 2006 Plan became an equity incentive plan of ours after the 2009 Merger. Typical option grants under the 2010 and 2006 Plans are for ten years with exercise prices at or above market price based on the last closing price as of the date prior to the grant date on the relevant stock market or exchange and vest over four years as follows: 6/48ths on the six month anniversary of the date of grant; and 1/48th per month thereafter.

Effective September 1, 2006, our stock-based compensation is accounted for in accordance with ASC Topic 718, Accounting for Compensation Arrangements, or ASC 718 (previously listed as Statement of Financial Accounting Standards, or SFAS, No. 123 (revised 2004), Share-Based Payment), and related interpretations. Under the fair value recognition provisions of this statement, share-based compensation cost is measured at the grant date based on the value of the award and is recognized as expense over the vesting period. Determining the fair value of share-based awards at the grant date requires judgment, including estimating future stock price volatility and employee stock option exercise behavior. If actual results differ significantly from these estimates, stock-based compensation expense and results of operations could be materially impacted.

In March 2005, the FASB issued ASC 718 (previously listed as Staff Accounting Bulletin, or SAB, No. 107, or SAB 107), which offers guidance for what was previously referred to as SFAS 123(R). ASC 718 was issued to assist preparers by simplifying some of the implementation challenges of SFAS 123(R) while enhancing the information that investors receive. ASC 718 creates a framework that is premised on two overarching themes: (a) considerable judgment will be required by preparers to successfully implement SFAS 123(R), specifically when valuing employee stock options; and (b) reasonable individuals, acting in good faith, may conclude differently on the fair value of employee stock options. Key topics covered by ASC 718 include valuation models, expected volatility and expected term.

For the three month period ended May 31, 2010, stock-based compensation expense was based on the Black-Scholes option-pricing model assuming the following: risk-free interest rate of 3.1%; 7 year expected life; 77% volatility; 2.5% turnover rate; and 0% dividend rate.

We based our Black-Scholes inputs on the following factors: the risk-free interest rate was based upon our review of current constant maturity treasury bill rates for seven years; the expected life was based upon our assessment of the ten-year term of the stock options issued along with the fact that we are a development-stage company and our anticipation that option holders will exercise stock options when the company is at a more mature stage of development; the volatility was based on the actual volatility of our common stock price as quoted on NASDAQ since the closing of our 2009 Merger on September 30, 2009; the turnover rate was based on our assessment of our historical employee turnover; and the dividend rate was based on our current decision to not pay dividends on our stock at our current development stage. If factors change and different assumptions are employed in the application of ASC 718, the compensation expense recorded in future periods may differ significantly from what was recorded in the current period. See Note 8 of our condensed consolidated financial statements for further discussion of our accounting for stock based compensation.

We recognize as consulting expense the fair value of options granted to persons who are neither employees nor directors. Stock options issued to consultants are accounted for in accordance with the provisions of the FASB ASC Topic 505-50, Equity-Based Payments to Non-Employees, or ASC 505-50 (previously listed as Emerging Issues Task Force, or EITF, Consensus No. 96-18, Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling Goods or Services). The fair value of expensed options is based on the Black-Scholes option-pricing model assuming the same factors as stock-based compensation expense discussed above.

Results of Operations

Three months ended May 31, 2010 compared with the three months ended May 31, 2009

General and Administrative

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the three months ended May 31, 2010 increased by approximately \$267,000 compared to the same period of the prior year. The increase was primarily due to:

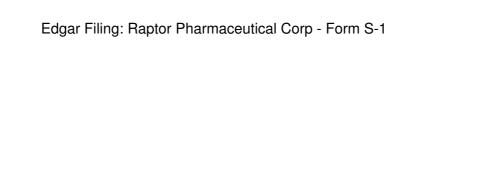
	Variance in \$
Reason for Variance	Thousands
Legal expenses for clinical trial agreements and licenses	199
Cash bonuses paid in 2010 that did not occur in 2009	107
Salary increases in 2010 retroactive to September 1, 2009	101
Increase in office expenses due to additional personnel	49
Additional investor relations costs relating to annual meeting costs in 2010	
that did not occur in 2009	43
Additional accounting and professional fees due to additional complexities	
related to the 2009 Merger	21
Increase in benefits costs and due to new employees	21
Increase in board fees due to new board member in Sept. 2009	10
Decrease in stock option expense due to options that were fully vested in	
2009	(29)
Decrease in recruiting fee paid for CMO in 2009 and not in 2010	(28)
Increase in G&A costs allocated to R&D due to additional R&D personnel	(227)
General and Administrative variance Quarter to Date Third Quarter 2010 vs.	
Third Quarter 2009	267

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the three months ended May 31, 2010 increased by approximately \$281,000 over the prior year primarily due to:

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Reason for Variance	Variance in \$ Thousands
Manufacture of DR Cysteamine for cystinosis and Huntington's Disease clinical	
trials	299
Increase in executive and facilities costs to R&D	227
Clinical costs of preparing for Phase 3 cystinosis trial	115
Hiring of CMO in April 2009, salary increases retroactive to Sept. 1, 2009,	
addition of Director of Clinical Operations in March 2010	65
Increase in benefits costs	29
Additional travel for clinical trial preparation	21
Reduction of reagent purchases by preclinical development	(29)
Reduction of HepTide and WntTide preclinical studies in 2010	(111)
Reduction of R&D consultants replaced by CMO, Director of Program Mgmt.	
and Director of Clinical Operations	(335)
Research and Development variance Quarter to Date Third Quarter 2010 vs.	
Third Quarter 2009	281



Research and development expenses include the following: (in \$ millions)

		Constation	Three month periods ended May 31,		Nine month periods ended May 31,	
	Estimated	Cumulative through				
Major Program (stage of	next 12	May 31,				
development)	months	2010	2010	2009	2010	2009
DR Cysteamine – All	10.4		1.3	1.2	4.0	3.2
Indications (clinical)		9.0				
ConviviaTM (clinical)	-	2.3	-	0.1	0.2	0.3
HepTideTM (preclinical)	-	1.7	0.1	0.1	0.1	0.3
NeuroTransTM	-		-	-	-	-
(preclinical)		0.3				
WntTideTM (preclinical)	0.3	0.4	-	-	0.1	0.1
Minor or Inactive Programs	-	0.7	-	0.1	0.1	0.1
R & D Personnel and Other						
Costs Not Allocated to	2.4		0.8	0.4	1.8	1.4
Programs		6.7				
Total Research &						
Development Expenses	13.1	21.1	2.2	1.9	6.3	5.4

Major Program expenses recorded as general and administrative expenses: (in \$ millions)

	Estimated	Cumulative through	Three month periods ended May 31,		Nine month periods ended May 31,	
Major Program (stage of	next 12	May 31, 2010				
development)	months		2010	2009	2010	2009
DR Cysteamine – All	0.06		0.05	0.02	0.08	0.10
Indications (clinical)		0.27				
ConviviaTM (clinical)	0.04	0.14	0.02	-	0.05	-
HepTideTM (preclinical)	0.04	0.33	0.01	0.05	0.17	0.05
NeuroTransTM (preclinical)	0.03	0.18	0.02	\$0.01	0.04	\$0.03
WntTideTM (preclinical)	0.01	0.12	0.02	-	0.06	-

Additional major program expenses include patent fees and patent expenses which were recorded as general and administrative expenses as these fees are to support patent applications (not issued patents).

Any of our major programs could be partnered for further development and/or could be accelerated, slowed or ceased due to scientific results or challenges in obtaining funding. In addition, the timing and costs of development of our programs

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beyond the next 12 months is highly uncertain and difficult to estimate. See the section titled "Risk Factors" included elsewhere in this prospectus for further discussion about the risks and uncertainties pertaining to drug development.

Current Status of Major Programs

Please refer to the section titled, "Future Activities" above in this prospectus for a detailed discussion of each of our major programs. In summary, DR Cysteamine is being developed in cystinosis, NASH and HD. In November 2009, we released data from our Phase 2b clinical trial and in June 2010, we commenced our Phase 3 clinical trial to study DR Cysteamine in cystinosis patients. In May 2010, we presented the data from our NASH Phase 2a clinical trial. We anticipate studying DR Cysteamine in a Phase 2a clinical trial in HD patients in the third quarter of 2010.

Our ConviviaTM product candidate completed its initial clinical study in 2008 and in June 2010, we licensed Convivia TM to Uni Pharma for further clinical development in Taiwan, with an option to develop ConviviaTM in South Korea. We continue to seek other potential partners for ConviviaTM in other Asian countries where its potential market exists. We are seeking to out-license our Tezampanel and NGX426 product candidates and no development costs will be incurred for the pain indication. NeuroTransTM is currently being studied under a collaboration agreement with Roche. HepTideTM will be undergoing further preclinical proof of concept studies and WntTideTM is being considered for potential out-licensing for further development. All preclinical product candidates will require further study prior to potentially moving into a clinical phase of development.

Interest Income

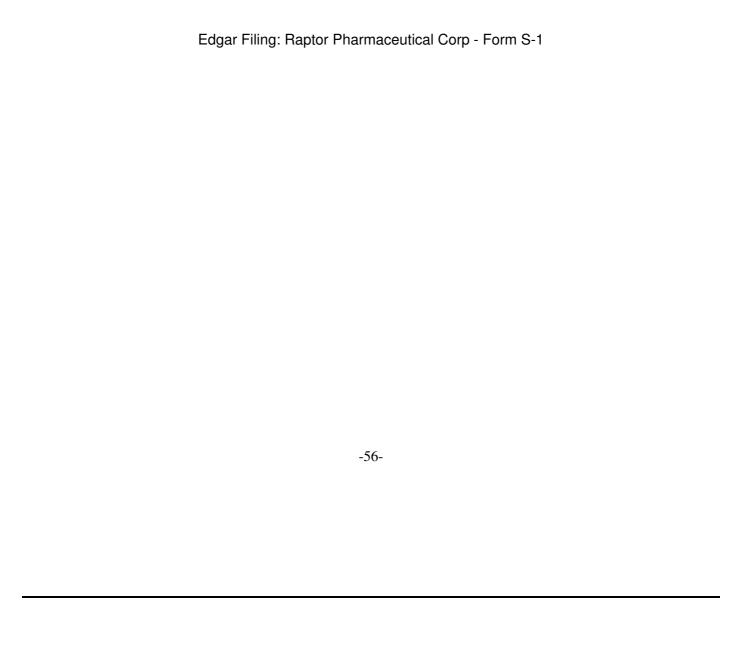
Interest income increased by \$2,522 for the three months ended May 31, 2010 compared to the same period of the prior year due to a small increase in money market interest rates.

Interest Expense

Interest expense for the three months ended May 31, 2010 and 2009 were nominal.

Adjustment to the Fair Value of Common Stock Warrants

Expense adjustment to the fair value of common stock warrants increased by \$4.3 million for the three months ended May 31, 2010 compared to the same period of the prior year due to the fact that there was no warrant liability recorded in the prior year.



Nine months ended May 31, 2010 compared with nine months ended May 31, 2009

General and Administrative

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the nine months ended May 31, 2010 increased by approximately \$991,000 compared to the same period of the prior year. The increase was primarily due to:

	Variance in \$
Reason for Variance	Thousands
Legal expenses for clinical trial agreements and licenses	361
Additional investor relations costs relating to two annual meeting costs in the	
current fiscal year that did not occur in prior fiscal year	
and increase in press releases due to the 2009 Merger	217
Increase in office expenses due to additional personnel	183
Increase in patent expenses related to preclinical and clinical pending patents	171
Additional accounting and professional fees due to additional complexities	
related to the 2009 Merger	135
Salary increases in 2010 retroactive to September 1, 2009	101
Increase in administrative consulting related to business development	85
Increase in D&O insurance costs due to increase in coverage limits	52
Increase in transfer agent fees due to 2009 Merger	50
Cash bonuses paid in 2010 that did not occur in 2009	40
Increase in board fees due to new board member in Sept. 2009	37
Increase in benefits costs and due to new employees	33
Decrease in recruiting fee paid for CMO in 2009 and not in 2010	(70)
Decrease in stock option expense due to options that were fully vested in 2009	(151)
Increase in G&A costs allocated to R&D due to additional R&D personnel	(253)
General and Administrative variance Year to Date Third Quarter 2010 vs. Third	
Quarter 2009	991

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the nine months ended May 31, 2010 increased by approximately \$902,000 over the prior year primarily due to:

Reason for Variance	Variance in \$ Thousands
Manufacture of DR Cysteamine for cystinosis and Huntington's Disease clinical	812
trials	812
Clinical costs of preparing for Phase 3 cystinosis trial	746
Increase in executive and facilities costs to R&D	253
Hiring of CMO in April 2009, salary increases retroactive to Sept. 1, 2009,	192
addition of Director of Clinical Operations in March 2010	192
Additional travel for clinical trial preparation	45
Increase in benefits costs	44
Increase in clinical lab services in preparation for Phase 3 trial	41
Reduction in milestones paid to UCSD in 2009 not repeated in 2010	(180)
Reduction of reagent purchases by preclinical development	(182)
Reduction of HepTide and WntTide preclinical studies in 2010	(266)
Reduction of R&D consultants replaced by CMO, Director of Program Mgmt.	(602)
and Director of Clinical Operations	(603)
Research and Development variance Year to Date Third Quarter 2010 vs. Third	002
Quarter 2009	902

Interest Income

Interest income decreased by \$17,033 for the nine months ended May 31, 2010 compared to the same period of the prior year primarily due to the decrease in money market balances.

Interest Expense

Interest expenses for the nine months ended May 31, 2010 and 2009 were nominal.

Adjustment to the Fair Value of Common Stock Warrants

Expense adjustment to the fair value of common stock warrants increased by \$5.4 million for the nine months ended May 31, 2010 compared to the same period of the prior year due to the fact that there was no warrant liability recorded in the prior year.

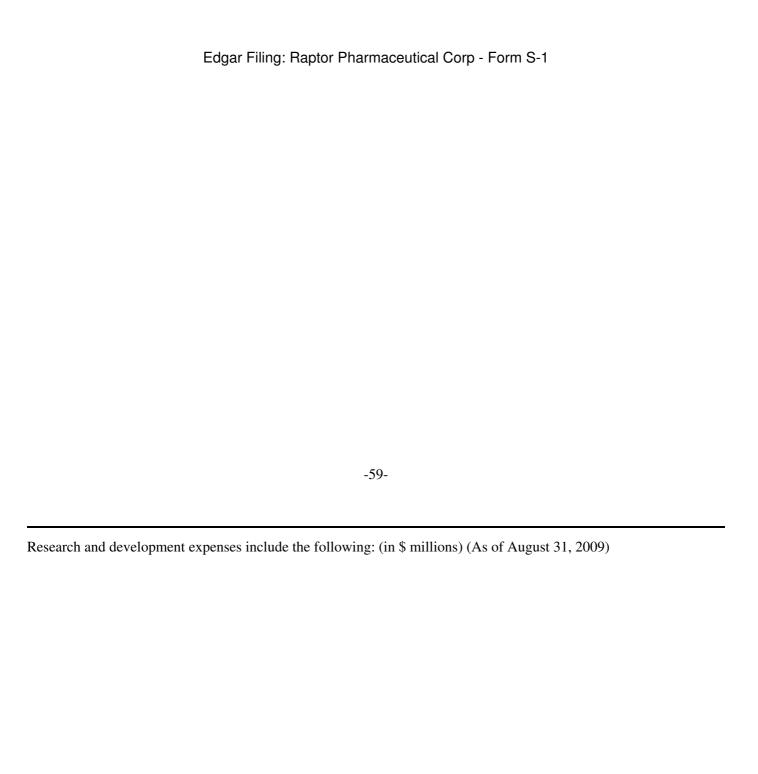
Years ended August 31, 2009 and 2008

General and Administrative

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the year ended August 31, 2009 increased by \$0.45 million compared to the prior year. The increase was primarily due to (A) an increase of \$0.29 million in legal and other costs accrued related to the 2009 Merger, \$0.17 million in employee salaries, bonuses, benefits and other employment-related costs due to employee raises that occurred in July 2008, milestone related bonuses paid in October 2008, recruiting fees related to the hiring of our Director of Program Management in October 2008 and our Chief Medical Officer in April 2009, offset by prior year's performance bonuses not repeated in the current year, plus (B) an increase of \$0.20 million in administrative consulting due to the retention of a strategic business advisor in May 2008, investor relations consultants in February 2009 and for the redesign of our website in November 2008, and (C) an increase of \$0.08 million of board fees and expenses due to the addition of a new board member in July 2008, all of which were partially offset by (i) the increase of support services allocation to research and development expenses of \$0.19 million (ii) a decrease of \$0.05 million in amortization and depreciation related to fully depreciated fixed assets, and (iii) a decrease of \$0.05 million in travel due to a reduction in attendance at tradeshows and conferences.

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the year ended August 31, 2009 increased by \$1.00 million over the prior year primarily due to (A) the costs associated with the formulation manufacturing expenses of our proprietary formulation of DR Cysteamine of \$1.21 million in preparation for our clinical trials in cystinosis, (B) an increase of \$0.34 million in research and development consulting related to the preparation for our pre-IND meeting with the FDA and in preparation for our IND submission, (C) an increase of \$0.25 million in salaries and benefits due to the hiring of our director of program management in October 2008 and our Chief Medical Officer in April 2009, (D) an increase of \$0.25 million in milestone payments for the commencement of the NASH trial in October 2008 and cystinosis trial in June 2009, (E) an increase of \$0.23 million in clinical trial costs for our NASH indication, and (F) an increase of \$0.19 million in allocated support services, all of which were partially offset by (i) a decrease of \$0.54 million due to the ConviviaTM clinical trial in the prior year that did not repeat in the current year, (ii) a \$0.30 reduction in lab personnel expenses due to a collaboration reimbursement, (iii) a decrease of \$0.27 million of HepTideTM conjugates that were manufactured in the prior year but did not repeat in the current year, (iv) a decrease in lab collaboration fees of \$0.24 million due to the lapse of the Stanford collaboration on NeuroTransTM, (v) a decrease of \$0.10 million in preclinical studies due to the reduction of resources allocated to preclinical programs and (vi) a decrease of \$0.02 million in tradeshow costs which we incurred in the prior year but not in the current year.



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Major Program (stage of development)	Estimated FYE	Cumulative Through	FYE	FYE
	August 31, 2010	_	August 31, 2009	August 31, 2008
	2010	2009	2009	2000
DR Cysteamine — All Indications				
(clinical)	6.0	5.0	4.0	1.0
Convivia TM (clinical)	0.1	2.1	0.4	1.7
HepTide TM (preclinical)	0.1	1.6	0.4	0.7
NeuroTrans TM (preclinical)		0.3	(0.3)	0.3
WntTide TM (preclinical)		0.3	0.1	0.2
Minor or Inactive Programs		0.7	0.1	0.2
R & D Personnel and Other Costs Not				
Allocated to Programs	1.7	4.9	1.9	1.5
Total Research & Development				
Expenses	7.9	14.9	6.6	5.6

Major Program expenses recorded as general and administrative expenses: (in \$ millions) (As of August 31, 2009)

Major Program (stage of development)	Estimated	Cumulative	FYE	FYE
	FYE	Through	August 31,	August 31,
	August 31,	August 31,	2009	2008
	2010	2009		
DR Cysteamine — All Indications				
(clinical)	0.10	0.20	0.12	0.08
Convivia TM (clinical)	0.01	0.09	0.05	0.04
HepTide TM (preclinical)	0.05	0.17	0.07	0.05
NeuroTrans TM (preclinical)	0.03	0.15	0.05	0.05
WntTide TM (preclinical)	0.01	0.06	0.01	0.02

In-Process Research and Development Expenses

In-process research and development expenses decreased by \$0.24 million over the year ended August 31, 2008 due to the recording of the purchase of our ConviviaTM program during the year ended August 31, 2008. No such expense was incurred in the year ended August 31, 2009. In-process research and development expenses were calculated based on the value of our stock issued in connection with the purchase of certain intellectual property rights to develop ConviviaTM (4-MP) for the treatment of acetaldehyde toxicity.

Interest Income

Interest income decreased by \$0.041 million during the year ended August 31, 2009 over the year ended August 31, 2008 due to the significant decrease in annual money market interest rates from an average of 2% in 2008 to an average of less than 1% in 2009.

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Interest expense

Interest expense decreased by \$0.10 million in the year ended August 31, 2009 over the year ended August 31, 2008 due to the capitalized finder's fee of 46,625 shares of our common stock valued at \$102,000 (which was paid in connection with a convertible loan), which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the convertible loan prior to its expiration.

Years ended August 31, 2008 and 2007

General and Administrative

General and administrative expenses (including officer and employee compensation allocated to general and administrative expenses) for the fiscal year ended August 31, 2008 increased by \$0.7 million over the prior fiscal year primarily due to the costs incurred during our fiscal year ended August 31, 2008 for the patent expenses for our clinical programs of \$0.1 million, the salary and benefits of our clinical subsidiary's President of \$0.3 million, and legal and accounting expenses attributable to our clinical subsidiary of \$0.3 million.

Research and Development

Research and development expenses (including officer and employee compensation allocated to research and development) for the fiscal year ended August 31, 2008 increased by \$3.4 million over the prior fiscal year primarily due to the costs incurred during our fiscal year ended August 31, 2008 associated with our Phase 2a clinical trial for the ConviviaTM program of \$0.6 million, clinical and regulatory consulting for ConviviaTM of \$0.6 million and DR Cysteamine of \$0.6 million, executive, finance and facilities costs allocated to the research and development department of our clinical division of \$0.5 million, formulation manufacturing expenses of the proprietary formulation of ConviviaTM of \$0.3 million and DR Cysteamine of \$0.1 million, preclinical studies of ConviviaTM of \$0.2 million and of DR Cysteamine of \$0.1 million, and amortization of intangible assets related to the purchase of DR Cysteamine of \$0.1 million and incremental executive, finance and facilities costs allocated to the research and development department of our clinical division of \$0.5 million.

In-Process Research and Development Expenses

In-process research and development expenses increased by \$0.24 million over the prior fiscal year due to the recording of the purchase of our ConviviaTM program during our fiscal year ended August 31, 2008. No such expense was incurred in the prior year. In-process research and development expenses were calculated based on the value of our stock issued in connection with the purchase of certain intellectual property rights to develop ConviviaTM (4-MP) for the treatment of acetaldehyde toxicity.

Interest Income

Interest income decreased by \$0.07 million over the prior fiscal year due to the significant decrease in money market interest rates from 4.5% during the fiscal year ended August 31, 2007 to an average of approximately 2% during the fiscal year ended August 31, 2008, which was partially offset by the increase in money market balances during the fiscal year ended August 31, 2008 due to the \$10 million raised in May and June 2008.

Interest expense

Interest expense increased by \$0.1 million over the prior fiscal year due to the capitalized finder's fee of 46,625 shares of our common stock paid in connection with a convertible loan. These shares were valued at \$102,000, which was amortized as interest expense from August 2007 to April 2008, the term of the convertible loan. No draws were made on the loan prior to its expiration.

Liquidity and Capital Resources

Capital Resource Requirements

As of May 31, 2010, we had approximately \$3.5 million in cash, approximately \$8.4 million in current liabilities (of which \$7.3 million represented the non-cash common stock warrant liability) and approximately (\$4.8) million of net working capital deficit. Our forecasted average monthly cash expenditures for the next twelve months are approximately \$1.2 million.

We believe our cash and cash equivalents as of August 13, 2010 of \$17.2 million (taking into account approximately \$14 million in proceeds received by us from the 2010 Private Placement, net of commission and other expenses paid to the Placement Agent) will be sufficient to meet our obligations into the fourth calendar quarter of 2011. We are currently in the process of negotiating strategic partnerships and collaborations to supplement the funding of our preclinical and clinical programs beyond the fourth calendar quarter of 2011. Beyond the fourth calendar quarter of 2011, we may continue to require additional capital to continue to build our clinical and preclinical pipeline. If we are unable to obtain such additional capital when needed, we may be forced to scale down our expenditures.

Our recurring losses from operations and our accumulated deficit raise substantial doubt about our ability to continue as a going concern and, as a result, our independent registered public accounting firm included an explanatory paragraph in its report on our consolidated financial statements for the year ended August 31, 2009 with respect to this uncertainty. We may need to generate significant revenue or raise additional capital to continue to operate as a going concern beyond the fourth calendar quarter of 2011. In addition, the perception that we may not be able to continue as a going concern may cause others to choose not to deal with us due to concerns about our ability to meet our contractual obligations and may adversely affect our ability to raise additional capital.

The sale of additional securities is likely to result in additional dilution to our stockholders. Additional financing may not be available when needed in amounts or on terms satisfactory to us or at all. We may be unable to raise additional financing due to a variety of factors, including our financial condition, the status of our research and development programs, and the general condition of the financial markets. If we fail to raise additional financing when needed, we may have to delay or terminate some or all of our research and development programs, our financial condition and operating results may be adversely affected and we may have to scale back our operations.

In April 2009, in order to reflect then-current market prices, Raptor Pharmaceuticals Corp. notified the holders of warrants purchased in the May/June 2008 private placement that it was offering, in exchange for such warrants, new warrants to purchase its common stock at an exercise price of \$0.30 per share, but only to the extent such exchange of the original warrants and exercise of the new warrants, including the delivery of the exercise price, occurred on or prior to July 17, 2009. The warrants that were not exchanged prior to or on July 17, 2009 retained their original exercise prices of \$0.90 per share and original expiration date of May 21, 2010. Raptor Pharmaceuticals Corp. received approximately \$2.6 million of proceeds from warrant exercises that resulted in the issuance of 8,715,000 shares of its common stock pursuant to the exchange described above. On a post-2009 Merger basis, the warrants that were not exchanged prior to or on July 17, 2009 are warrants to purchase shares of our common stock at an exercise price of \$3.86 per share and continue to have an expiration date of May 21, 2010, and the 8,715,000 shares of Raptor

Pharmaceuticals Corp.'s common stock described above are 2,031,670 shares of our common stock.

In August 2009, Raptor Pharmaceuticals Corp. entered into a Securities Purchase Agreement with four investors for the private placement of units at a purchase price of \$0.32 per unit. Each unit was comprised of one share of its common stock, par value \$0.001 per share and one warrant to purchase one half of one share of its common stock. At the closing, Raptor Pharmaceuticals Corp. sold an aggregate of 7,456,250 units to the investors, comprised of an aggregate of 7,456,250 shares of its common stock and warrants to purchase up to in the aggregate, 3,728,125 shares of its common stock, for aggregate gross proceeds of \$2,386,000. The investor warrants, exercisable for two years from the closing, had an exercise price of \$0.60 per share during the first year and \$0.75 per share during the second year, depending on when such investor warrants were exercised, if at all. On a post-2009 Merger basis, the 7,456,250 shares of Raptor Pharmaceuticals Corp.'s common stock described above are 1,738,226 shares of our common stock and the two-year warrants are warrants to purchase up to, in the aggregate, 869,113 shares of our common stock and have an exercise price of \$2.57 per share during the first year and \$3.22 per share during the second year, depending on when such investor warrants are exercised, if at all.

In December 2009, we entered into a definitive securities purchase agreement, or the Direct Offering Purchase Agreement, dated as of December 17, 2009, with 33 investors (collectively, the Direct Offering Investors) with respect to the sale

of units, whereby, on an aggregate basis, the investors agreed to purchase 3,747,558 Units for a negotiated purchase price of \$2.00 per unit for aggregate gross proceeds of approximately \$7.5 million. Each unit consists of one share of our common stock, one Series A Warrant exercisable for 0.5 of a share of our common stock and one Series B Warrant exercisable for 0.5 of a share of our common stock and the warrants were issued separately. The Series A Warrants will be exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the fifth (5th) anniversary of the date of issue. The Series B Warrants will be exercisable during the period beginning one hundred eighty (180) days after the date of issue and ending on the eighteen (18) month anniversary of the date of issue. The investor warrants have a per share exercise price of \$2.45. In connection with this offering we paid a placement agent cash compensation equal to 6.5% of the gross proceeds or \$487,183 plus a five-year warrant at an exercise price of \$2.50 per share for the purchase of up to 74,951 shares of our common stock.

In April 2010, we entered into a \$15 million equity line facility with LPC, which allows us to sell shares of our common stock every two days if our selling price to the investor is over \$1.50 per share. Cumulatively, as of August 13, 2010, we have sold approximately 2.2 million shares under the equity line raising approximately \$4.9 million. We may direct LPC to purchase up to an additional \$10.1 million of shares of our common stock under the LPC Purchase Agreement over the next 21 months, generally in amounts of up to \$100,000 every 2 business days. However, LPC does not have the right nor the obligation to purchase any shares of our common stock on any business day that the purchase price of our common stock is less than \$1.50 per share. Although we have the right to sell additional shares of our common stock to LPC under the LPC Purchase Agreement, we are restricted from making such sale under the 2010 Private Placement Purchase Agreement until the later of (i) November 10, 2010 or (ii) 30 days after the effective date of the registration statement of which this prospectus is a part.

On August 9, 2010, we entered into the 2010 Private Placement Purchase Agreements with the 2010 Private Placement Investors for the private placement of our common stock and warrants to purchase our common stock, at a purchase price of \$3.075 per unit, with each unit comprised of one share of common stock and a warrant to purchase one share of common stock. We issued and sold an aggregate of 4,897,614 units, comprised of an aggregate of 4,897,614 shares of our common stock for gross proceeds of approximately \$15.1 million. Each warrant, exercisable for 5 years from August 12, 2010, has an exercise price of \$3.075 per share. As the placement agent for the 2010 Private Placement, the Placement Agent was issued one warrant to purchase 97,952 shares of our common stock at an exercise price of \$3.075 per share, paid a cash commission of \$978,910.60 and reimbursed for certain of its expenses incurred in connection with the 2010 Private Placement.

There can be no assurance that we will be able to obtain funds required for our continued operation. There can be no assurance that additional financing will be available to us or, if available, that it can be obtained on commercially reasonable terms. If we are not able to obtain financing on a timely basis, we will not be able to meet our obligations as they become due and we will be forced to scale down or perhaps even cease the operation of our business. This also may be the case if we become insolvent or if we breach our asset purchase agreement with BioMarin or our licensing agreements with Washington University and UCSD due to non-payment (and we do not cure our non-payment within the stated cure period). If this happens, we would lose all rights to the RAP technology assigned to us by BioMarin and/or the rights to Mesd licensed to us by Washington University and/or the rights to DR Cysteamine licensed to us by UCSD, depending on which agreement is breached. If we lose our rights to the intellectual property related to the RAP technology purchased by us from BioMarin, our agreement with Roche would likely be terminated and any milestone or royalty payments from Roche to us would thereafter cease to accrue.

For the next 12 months we intend to expend a total of approximately \$14.7 million to implement our operating plan of researching and developing our DR Cysteamine clinical programs, our RAP based platform, our licensed technologies, as well as continuing business development efforts for our other clinical-stage product candidates. Specifically, we estimate our operating expenses and working capital requirements for the next 12 months to be as follows:

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Estimated spending for the next 12 months:	In millions
Research and development activities	\$ 11.6
Research and development compensation and	1.5
benefits	
General and administrative activities	0.8
General and administrative compensation and	0.8
benefits	
Capital expenditures	-
Total estimated spending for the next 12 months	\$ 14.7

We anticipate that we will not be able to generate revenues from the sale of products until we further develop our drug product candidates and obtain the necessary regulatory approvals to market our future drug product candidates, which could take several years or more, if we are able to do so at all. Accordingly, our cash flow projections are subject to numerous contingencies and risk factors beyond our control, including successfully developing our drug product candidates, market acceptance of our drug product candidates, competition from well-funded competitors, and our ability to manage our expected growth. It is likely that for many years, we will not be able to generate internal positive cash flow from the sales of our drug product candidates sufficient to meet our operating and capital expenditure requirements.

There is substantial doubt about our ability to continue as a going concern as the continuation of our business is dependent upon obtaining further long-term financing, the successful development of our drug product candidates and related technologies, the successful and sufficient market acceptance of any product offerings that we may introduce and, finally, the achievement of a profitable level of operations. The issuance of additional equity securities by us is likely to result in a significant dilution in the equity interests of our current stockholders. Obtaining commercial loans, assuming those loans would be available, including on acceptable terms, will increase our liabilities and future cash commitments.

Research and Development Activities

We plan to conduct further research and development, seek to support several clinical trials for DR Cysteamine, improve upon our RAP-based and in-licensed technology and continue business development efforts for our other clinical-stage product candidates in the next 12 months. We plan to conduct research and development activities by our own laboratory staff and also by engaging contract research organizations, clinical research organizations and contract manufacturing organizations. We also plan to incur costs for the production of our clinical study drug candidate, DR Cysteamine, clinical trials, clinical and medical advisors and consulting and collaboration fees. We anticipate our research and development costs for the next 12 months, excluding in-house research and development compensation, will be approximately \$11.6 million.

Officer and Employee Compensation

We have five executive officers, one permanent scientific staff member, three permanent clinical development staff members and one permanent finance staff member. We anticipate spending up to approximately \$2.3 million in officer and employee compensation during the next 12 months, of which \$1.5 million is allocated to research and development expenses and \$0.8 million is allocated to general and administrative expenses.

General and Administrative

We anticipate spending approximately \$0.8 million on general and administrative costs in the next 12 months. These costs will consist primarily of legal and accounting fees, patent legal fees, investor relations expenses, board fees and expenses, insurance, rent and facility support expenses, excluding finance and administrative compensation.

Capital Expenditures

We anticipate spending approximately \$20,000 in the next 12 months on capital expenditures for lab equipment and office furniture.

Contractual Obligations with BioMarin

Pursuant to the terms of the asset purchase agreement we entered into with BioMarin for the purchase of intellectual property related to our RAP based technology (including NeuroTransTM), we are obligated to make the following milestone payments to BioMarin upon the achievement of the following events:

- \$50,000 (paid by us in June 2006) within 30 days after we receive total aggregate debt or equity financing of at least \$2,500,000;
- \$100,000 (paid by us in June 2006) within 30 days after we receive total aggregate debt or equity financing of at least \$5,000,000;
- \$500,000 upon our filing and acceptance of an investigational new drug application for a drug product candidate based on our NeuroTransTM product candidate;
- \$2,500,000 upon our successful completion of a Phase 2 human clinical trial for a drug product candidate based on our NeuroTransTM product candidate;
- \$5,000,000 upon our successful completion of a Phase 3 human clinical trial for a drug product candidate based on our NeuroTransTM product candidate;
- \$12,000,000 within 90 days of our obtaining marketing approval from the FDA or other similar regulatory agencies for a drug product candidate based on our NeuroTransTM product candidate;
- \$5,000,000 within 90 days of our obtaining marketing approval from the FDA or other similar regulatory agencies for a second drug product candidate based on our NeuroTransTM product candidate;
- \$5,000,000 within 60 days after the end of the first calendar year in which our aggregated revenues derived from drug product candidates based on our NeuroTransTM product candidate exceed \$100,000,000; and
- \$20,000,000 within 60 days after the end of the first calendar year in which our aggregated revenues derived from drug product candidates based on our NeuroTransTM product candidate exceed \$500,000,000.

In addition to these milestone payments, we are also obligated to pay BioMarin a royalty at a percentage of our aggregated revenues derived from drug product candidates based on our NeuroTransTM product candidate. On June 9, 2006, we made a milestone payment in the amount of \$150,000 to BioMarin because we raised \$5,000,000 in our May 25, 2006 private placement financing. If we become insolvent or if we breach our asset purchase agreement with BioMarin due to non-payment and we do not cure our non-payment within the stated cure period, all of our rights to RAP technology (including NeuroTransTM) will revert back to BioMarin.

Contractual Obligations with Thomas E. Daley (assignee of the dissolved Convivia, Inc.)

Pursuant to the terms of the asset purchase agreement, or the Asset Purchase Agreement, that we entered into with Convivia, Inc. and Thomas E. Daley, pursuant to which we purchased intellectual property related to our 4-MP product candidate program, Mr. Daley will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by us, as set forth below:

- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we enter into a manufacturing license or other agreement to produce any product that is predominantly based upon or derived from any assets purchased from Convivia, or Purchased Assets, in quantity, referred to as Product, if such license agreement is executed within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of our restricted, unregistered common stock. Should we obtain a second such license or agreement for a Product, Mr. Daley will be entitled to receive 11,656 shares of our restricted, unregistered common stock within 30 days of execution of such second license or other agreement. On March 31, 2008, Raptor Pharmaceuticals Corp. issued 100,000 shares of its common stock valued at \$56,000 to Mr. Daley pursuant to this milestone reflecting the execution of an agreement to supply the active pharmaceutical ingredient for ConviviaTM, combined with the execution of a formulation agreement to produce the oral formulation of ConviviaTM. Due to the 2009 Merger, the 100,000 shares of Raptor Pharmaceuticals Corp. described above became 23,312 shares of our common stock.
- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we receive our first patent allowance on any patents which constitute part of the Purchased Assets in any one of certain predetermined countries, or a Major Market.
- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days after we receive our second patent allowance on any patents which constitute part of the Purchased Assets different from the patent referenced in the immediately preceding bullet point above in a Major Market.
- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days of completion of predetermined benchmarks in a Major Market by us or our licensee of the first phase 2 human clinical trial for a Product, or Successful Completion if such Successful Completion occurs within one (1) year of execution of the Asset Purchase Agreement or, if thereafter, 11,656 shares of our restricted, unregistered common stock within thirty (30) days of such Successful Completion. In October 2008, Raptor Pharmaceuticals Corp. issued 100,000 shares of its common stock valued at \$27,000 and a \$30,000 cash bonus (pursuant to Mr. Daley's employment agreement) to Mr. Daley pursuant to the fulfillment of this milestone. Due to the 2009 Merger, the 100,000 shares of Raptor Pharmaceuticals Corp. described above became 23,312 shares of our common stock.
- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days of a Successful Completion in a Major Market by us or our licensee of the second phase 2 human clinical trial for a Product (other than the Product for which a distribution is made under the immediately preceding bullet point above).
- 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee applies for approval to market and sell a Product in a Major Market for the indications for which approval is sought, or Marketing Approval.
- 11,656 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee applies for Marketing Approval in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).
- 46,625 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee obtains the first Marketing Approval for a Product from the applicable regulatory agency in a

Major Market.

• 23,312 shares of our restricted, unregistered common stock within fifteen (15) days after we or our licensee obtains Marketing Approval for a Product from the applicable regulatory agency in a Major Market (other than the Major Market for which a distribution is made under the immediately preceding bullet point above).

As discussed above, in aggregate, Raptor Pharmaceuticals Corp. issued to Mr. Daley, 200,000 shares of its common stock valued at \$83,000 and paid \$30,000 in cash bonuses related to ConviviaTM milestones along with another \$20,000 in cash bonuses related to employment milestones pursuant to Mr. Daley's employment agreement. Due to the 2009 Merger, such 200,000 shares Raptor Pharmaceuticals Corp. described above became 46,625 shares of our common stock. In July 2010, we issued 11,656 shares of our restricted common stock and paid a \$10,000 cash bonus to Mr. Daley as result of the execution of the license agreement with Uni Pharma for the development of ConviviaTM in Taiwan.

Contractual Obligations with Former Encode Securityholders

Pursuant to the terms of the merger agreement, or the Encode Merger Agreement, that we entered into with Encode Pharmaceuticals, Inc. and Nicholas Stergis in December 2007, former Encode securityholders will be entitled to receive the following, if at all, in such amounts and only to the extent certain future milestones are accomplished by us, as set forth below:

- Restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to, in the aggregate, 116,562 shares of our common stock upon the receipt by it at any time prior to the fifth-year anniversary of the Encode Merger Agreement of approval to market and sell a product for the treatment of cystinosis predominantly based upon and derived from the assets acquired from Encode, or Cystinosis Product, from the applicable regulatory agency (e.g., FDA and European Agency for the Evaluation of European Medical Products, or EMA) in a given major market in the world.
- Restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to 442,934 shares of our common stock upon the receipt by us at any time prior to the fifth anniversary of the Encode Merger Agreement of approval to market and sell a product, other than a Cystinosis Product, predominantly based upon and derived from the assets acquired from Encode, from the applicable regulatory agency (e.g., FDA and EMA) in a given major market in the world.

If within five years from the date of the Encode Merger Agreement, there occurs a transaction or series of related transactions that results in the sale of all or substantially all of the assets acquired from Encode other than to our affiliate in such case where such assets are valued at no less than \$2.5 million, the former Encode stockholders will be entitled to receive, in the aggregate, restricted, unregistered common stock, stock options to purchase our common stock, and warrants to purchase our common stock in an amount equal to 559,496 shares of common stock, less the aggregate of all milestone payments previously made or owing, if any.

Pursuant to the terms of the Encode Merger Agreement, an Encode stockholder was granted the right to demand the registration of its portion of the initial restricted, unregistered common stock issued to it in connection with the execution of the Encode Merger Agreement at any time following 140 days from the closing date of the merger with Encode and prior to the expiration of the fourth anniversary of the Encode Merger Agreement. To the extent that future milestones as described above are accomplished by us within five years from the effective time of the merger with Encode, we will be obligated to file a registration statement within 90 days covering such Encode stockholder's portion of such respective future restricted, unregistered common stock issued relating to such milestone payment.

Contractual Obligations with UCSD

As a result of the merger of our clinical subsidiary and Encode, we received the exclusive worldwide license to DR Cysteamine, or License Agreement for use in the field of human therapeutics for metabolic and neurologic disorders, developed by clinical scientists at the UCSD, School of Medicine. DR Cysteamine is a proprietary, delayed-release, enteric-coated microbead formulation of cysteamine bitartrate, a cystine depleting agent currently approved by the

FDA. Cysteamine bitartrate is prescribed for the management of the genetic disorder known as cystinosis, a lysosomal storage disease. The active ingredient in DR Cysteamine has also demonstrated potential in studies as a treatment for other metabolic and neurodegenerative diseases, such as HD and NASH.

In consideration of the grant of the license, prior to the merger, Encode paid an initial license fee and we will be obligated to pay an annual maintenance fee of \$15,000 until we begin commercial sales of any products developed pursuant to the License Agreement. In addition to the maintenance fee, we will be obligated to pay during the life of the License Agreement: milestone payments ranging from \$20,000 to \$750,000 for orphan indications and from \$80,000 to \$1,500,000 for non-orphan indications upon the occurrence of certain events, if ever; royalties on commercial net sales from products developed pursuant to the License Agreement ranging from 1.75% to 5.5%; a percentage of sublicense fees ranging from 25% to 50%; a percentage of sublicense royalties; and a minimum annual royalty commencing the year we begin commercially selling any products pursuant to the License Agreement, if ever. Under the License Agreement, we are obligated to fulfill predetermined milestones within a specified number of years ranging from 0.75 to 6 years from the effective date of the License Agreement, depending on the indication. In addition, we are obligated to, among other things, annually spend at least \$200,000 for the development of products—which, as of August 31, 2009, we had spent approximately \$4.1 million on such programs—pursuant to the License Agreement. To-date, we have paid \$270,000 in milestone payments to UCSD based upon the initiation of clinical trials in

cystinosis and in NASH. To the extent that we fail to perform any of our obligations under the License Agreement, UCSD may terminate the license or otherwise cause the license to become non-exclusive.

Contractual Obligations to TPTX, Inc. Employees

Pursuant to the documents related to the 2009 Merger, including amended employment agreements with the TPTX, Inc. employees, who were former executives of TorreyPines prior to the 2009 Merger, we were obligated to pay such former executives their salaries, benefits and other obligations through February 28, 2010, which obligations were extended through mid-April 2010. As of May 31, 2010, we had no remaining obligations to such former executives and they received their final compensation in mid-April 2010.

Off-Balance Sheet Arrangements

We do not have any outstanding derivative financial instruments, off-balance sheet guarantees, interest rate swap transactions or foreign currency contracts. We do not engage in trading activities involving non-exchange traded contracts.

Reverse Acquisition

We have treated the 2009 Merger as a reverse acquisition and the reverse acquisition will be accounted for as a recapitalization.

For accounting purposes, Raptor Pharmaceuticals Corp. is considered the accounting acquirer in the reverse acquisition. The historical financial statements reported in this prospectus and in future periods are and will be those of Raptor Pharmaceuticals Corp. consolidated with its subsidiaries and with us, its parent, Raptor Pharmaceutical Corp. (formerly TorreyPines Therapeutics, Inc.). Earnings per share for periods prior to the reverse merger have been restated to reflect the number of equivalent shares received by former stockholders.

Going Concern

Due to the uncertainty of our ability to meet our current operating and capital expenses, in their reports on our audited financial statements for the years ended August 31, 2009, 2008, 2007 and for the period September 8, 2005 (inception) to August 31, 2006, our independent registered public accounting firm, Burr Pilger Mayer, Inc., included an explanatory paragraph regarding substantial doubt about our ability to continue as a going concern. Our financial statements contain additional note disclosures describing the circumstances that led to this disclosure by our independent registered public accounting firm.

New Accounting Pronouncements

In December 2007, the EITF reached a consensus on ASC Topic 808, Collaborative Agreement, or ASC 808 (previously EITF 07-01, Accounting for Collaborative Arrangements). ASC 808 discusses the appropriate income statement presentation and classification for the activities and payments between the participants in arrangements related to the development and commercialization of intellectual property. The sufficiency of disclosure related to these arrangements is also specified. ASC 808 is effective for fiscal years beginning after December 15, 2008. As a result, ASC 808 is effective for us as of September 1, 2009. Based upon the nature of our business, ASC 808 could have a material impact on our financial position and consolidated results of operations in future years, but had no material impact for the three and nine months ended May 31, 2010.

In December 2007, the FASB, issued ASC Topic 805, Business Combinations, or ASC 805 (previously SFAS 141(R) and FASB ASC Topic 810, Consolidation, or ASC 810 (previously SFAS 160, Noncontrolling Interests in Consolidated Financial Statements, an amendment of ARB No. 51). These statements will significantly change the financial accounting and reporting of business combination transactions and non-controlling (or minority) interests in consolidated financial statements. ASC 805 requires companies to: (i) recognize, with certain exceptions, 100% of the fair values of assets acquired, liabilities assumed, and non-controlling interests in acquisitions of less than a 100% controlling interest when the acquisition constitutes a change in control of the acquired entity; (ii) measure acquirer shares issued in consideration for a business combination at fair value on the acquisition date; (iii) recognize contingent consideration arrangements at their acquisition-date fair values, with subsequent changes in fair value generally reflected in earnings; (iv) with certain exceptions, recognize pre-acquisition loss and

gain contingencies at their acquisition-date fair values; (v) capitalize in-process research and development assets acquired; (vi) expense, as incurred, acquisition-related transaction costs; (vii) capitalize acquisition-related restructuring costs only if the criteria in ASC Topic 420, Exit and Disposal Cost Obligations, (previously SFAS No. 146, Accounting for Costs Associated with Exit or Disposal Activities), are met as of the acquisition date; and (viii) recognize changes that result from a business combination transaction in an acquirer's existing income tax valuation allowances and tax uncertainty accruals as adjustments to income tax expense. ASC 805 is required to be adopted concurrently with ASC 810 and is effective for business combination transactions for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 (our fiscal 2010). Early adoption of these statements is prohibited. We believe the adoption of these statements will have a material impact on significant acquisitions completed after September 1, 2009.

In May 2008, the FASB released ASC Topic 470, Debt, or ASC 470 (previously FSP APB 14-1 Accounting For Convertible Debt Instruments That May Be Settled in Cash Upon Conversion (Including Partial Cash Settlement), which alters the accounting treatment for convertible debt instruments that allow for either mandatory or optional cash settlements. ASC 470 specifies that issuers of such instruments should separately account for the liability and equity components in a manner that will reflect the entity's nonconvertible debt borrowing rate when interest cost is recognized in subsequent periods. Furthermore, it would require recognizing interest expense in prior periods pursuant to retrospective accounting treatment. ASC 470 is effective for financial statements issued for fiscal years beginning after December 15, 2008; therefore, we adopted ASC 470 as of September 1, 2009. We have determined that ASC 470 had no material impact on our condensed consolidated financial statements for the three and nine months ended May 31, 2010.

In June 2008, the FASB issued FASB ASC Topic 815, Derivatives and Hedging, or ASC 815 (previously EITF 07-5, Determining Whether an Instrument (or an Embedded Feature) is Indexed to an Entity's Own Stock). ASC 815 requires entities to evaluate whether an equity-linked financial instrument (or embedded feature) is indexed to its own stock by assessing the instrument's contingent exercise provisions and settlement provisions. Instruments not indexed to their own stock fail to meet the scope exception of SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities, paragraph 11(a), and should be classified as a liability and marked-to-market. The statement is effective for fiscal years beginning after December 15, 2008 and interim periods within those fiscal years and is to be applied to outstanding instruments upon adoption with the cumulative effect of the change in accounting principle recognized as an adjustment to the opening balance of retained earnings. We adopted ASC 815 as of September 1, 2009 and have determined that ASC 815 had no material impact on our condensed consolidated statement of operations for the three and nine months ended May 31, 2010.

In April 2008, the FASB issued ASC Topic 350, Intangibles – Goodwill and Other, or ASC 350 (previously FSP SFAS No. 142-3, Determination of the Useful Life of Intangible Assets). ASC 350 provides guidance with respect to estimating the useful lives of recognized intangible assets acquired on or after the effective date and requires additional disclosure related to the renewal or extension of the terms of recognized intangible assets. ASC 350 is effective for fiscal years and interim periods beginning after December 15, 2008. We adopted ASC 350 as of September 1, 2009 and have determined that ASC 350 had no material impact on our condensed consolidated financial statements for the three and nine months ended May 31, 2010.

In May 2009, the FASB issued ASC Topic 855, Subsequent Events, or ASC 855 (previously SFAS No. 165, Subsequent Events). ASC 855 establishes general standards of accounting for and disclosure of events that occur after

the balance sheet date but before financial statements are issued or are available to be issued. ASC 855 defines the period after the balance sheet date during which management of a reporting entity should evaluate events or transactions that may occur for potential recognition or disclosure in the financial statements, and the circumstances under which an entity should recognize events or transactions occurring after the balance sheet date in its financial statements. ASC 855 is effective for fiscal years and interim periods ending after June 15, 2009. We adopted ASC 855 as of August 31, 2009 and anticipate that the adoption will impact the accounting and disclosure of future transactions. Our management has evaluated and disclosed subsequent events through the date of this filing.

ASC Topic 825, Financial Instruments, or ASC 825 (previously FSP FAS 107-1 and APB 28-1 amends FASB Statement No. 107, Disclosures about Fair Value of Financial Instruments), to require disclosures about the fair value of financial instruments for interim reporting periods of publicly traded companies as well as in annual financial statements. This ASC 825 also amends APB Opinion No. 28, Interim Financial Reporting, to require those disclosures in summarized financial information at interim reporting periods. The adoption of ASC 825 did not have a material impact on our condensed consolidated financial statements for the three and nine months ended May 31, 2010.

In June 2009, the FASB issued SFAS No. 167, Amendments to FASB Interpretation No. 46(R), or SFAS 167, which has not yet been codified in the ASC. The amendments include: (i) the elimination of the exemption for qualifying special purpose entities, (ii) a new approach for determining who should consolidate a variable-interest entity, and (iii) changes to when it is necessary to reassess who should consolidate a variable-interest entity. This statement is effective for fiscal years beginning after November 15, 2009, and for interim periods within that first annual reporting period. We are currently evaluating the impact of this standard, however, we do not expect SFAS 167 will have a material impact on our condensed consolidated financial statements.

In June 2009, the FASB issued ASC Topic 105, Generally Accepted Accounting Standards, or ASC 105 (previously SFAS No. 168, The FASB Accounting Standards CodificationTM and the Hierarchy of Generally Accepted Accounting Principles, a replacement of FASB Statement No. 162), or the Codification. The Codification, which was launched on July 1, 2009, became the single source of authoritative nongovernmental U.S. GAAP, superseding existing FASB, American Institute of Certified Public Accountants, EITF and related literature. The Codification eliminates the GAAP hierarchy contained in ASC 105 and establishes one level of authoritative GAAP. All other literature is considered non-authoritative. ASC 105 is effective for financial statements issued for interim and annual periods ending after September 15, 2009. We adopted ASC 105 as of September 1, 2009 however, references to both current GAAP and the Codification are included in this filing. We have determined that this provision had no material impact on our condensed consolidated financial statements for the three and nine months ended May 31, 2010.

In June 2009, the FASB issued ASC Topic 860, Transfers and Servicing (Statement No. 166, Accounting for Transfers of Financial Assets — an amendment of FASB Statement No. 140), or ASC 860. The guidance removes the concept of a qualifying special purpose entity and changes the requirements for derecognizing financial assets. Many types of transferred financial assets that would have been derecognized previously are no longer eligible for derecognition. The guidance is effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2009, and early adoption is prohibited. The guidance applies prospectively to transfers of financial assets occurring on or after the effective date. We are currently assessing the impact of ASC 860 and do not expect the adoption of this guidance to have a material impact on our condensed consolidated financial statements.

In January 2010, the FASB issued Accounting Standards Update, or ASU, 2010-06, Fair Value Measurements and Disclosures (Topic 820): Improving Disclosures about Fair Value Measurements, or ASU 2010-6. The ASU amends Subtopic 820-10 with new disclosure requirements and clarification of existing disclosure requirements. New disclosures required include the amount of significant transfers in and out of levels 1 and 2 fair value measurements and the reasons for the transfers. In addition, the reconciliation for level 3 activity will be required on a gross rather than net basis. The ASU provides additional guidance related to the level of disaggregation in determining classes of assets and liabilities and disclosures about inputs and valuation techniques. The amendments are effective for annual or interim reporting periods beginning after December 15, 2009, except for the requirement to provide the reconciliation for level 3 activity on a gross basis, which will be effective for fiscal years beginning after December 15, 2010. We are currently assessing the impact of ASU 2010-6 and do not expect the adoption of this guidance to have a material impact on our condensed consolidated financial statements.

In April 2010, the FASB issued ASU 2010-17, Revenue Recognition – Milestone Method (Topic 605): Milestone Method of Revenue Recognition ("ASU 2010-17"). ASU 2010-17 provides guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Consideration that is contingent on achievement of a milestone in its entirety may be

recognized as revenue in the period in which the milestone is achieved only if the milestone is judged to meet certain criteria to be considered substantive. Milestones should be considered substantive in their entirety and may not be bifurcated. An arrangement may contain both substantive and nonsubstantive milestones, and each milestone should be evaluated individually to determine if it is substantive. ASU 2010-17 is effective on a prospective basis for milestones achieved in fiscal years, and interim periods within those years, beginning on or after June 15, 2010, with early adoption permitted. We will adopt ASU 2010-17 as of September 1, 2010 and do not expect the adoption of this guidance to have a material impact on our condensed consolidated financial statements.

Interest Rate Market Risk

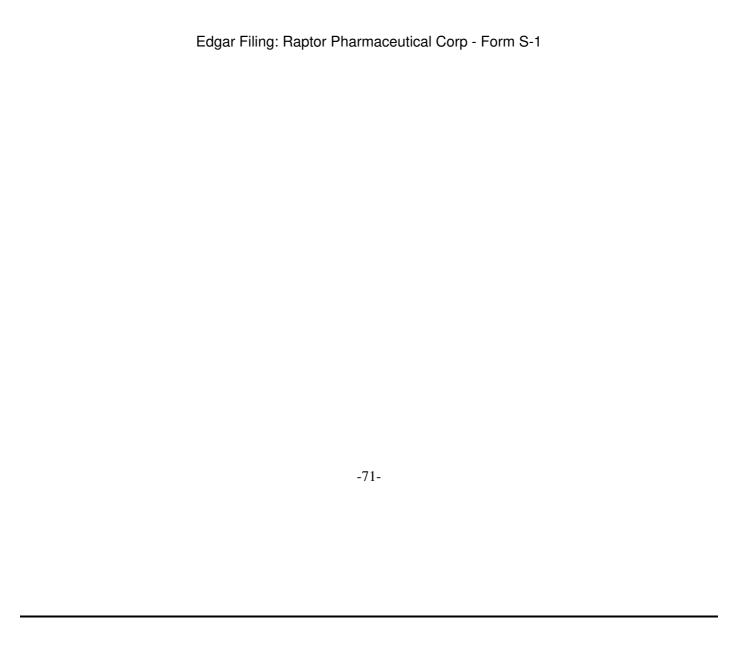
Our exposure to market risk for changes in interest rates relates primarily to our investment portfolio. By policy, we place our investments with highly rated credit issuers and limit the amount of credit exposure to any one issuer. As stated in our policy, we seek to improve the safety and likelihood of preservation of our invested funds by limiting default risk and market risk.

We mitigate default risk by investing in high credit quality securities and by positioning our portfolio to respond appropriately to a significant reduction in a credit rating of any investment issuer or guarantor. The portfolio includes only marketable securities with active secondary or resale markets to ensure portfolio liquidity.

As of May 31, 2010, our investment portfolio did not include any investments with significant exposure to the subprime mortgage market issues. Based on our investment portfolio, which consists 100% of money market accounts, and the interest rates in effect at May 31, 2010, we believe that a 100 basis point decrease in interest rates could result in a potential loss of future interest income of approximately \$32,000 annually; however such a decrease would have no effect on the fair value of the money market principal balances.

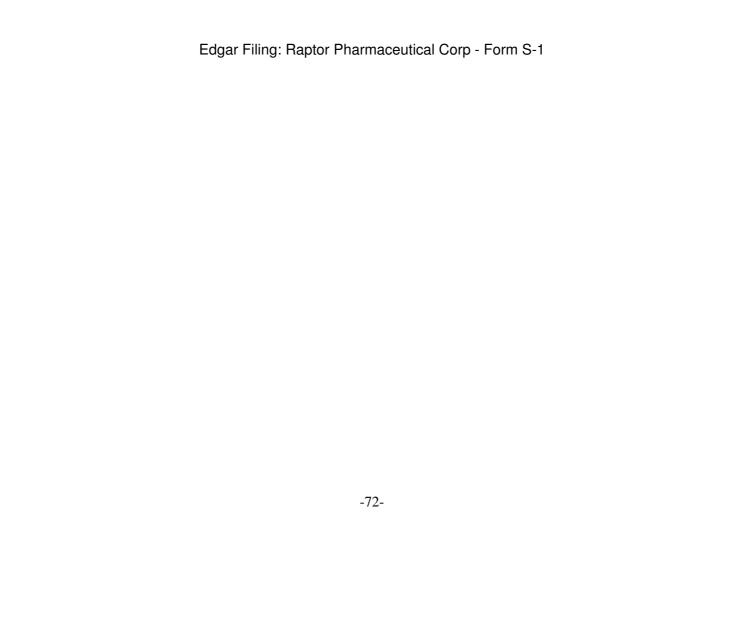
Of our total consolidated cash and cash equivalent balance of approximately \$3.5 million as of May 31, 2010, our money market balances represent \$3.2 million, or 92%.

Our debt obligations consist of our capital lease to finance our photocopier, which carries a fixed imputed interest rate and, as a result, we are not exposed to interest rate market risk on our capital lease obligations. The carrying value of our capital lease obligation approximates its fair value at May 31, 2010.



DESCRIPTION OF PROPERTY

In March 2006, we entered into a lease for our executive offices and research laboratory in Novato, California. Base monthly payments were \$5,206 per month subject to annual rent increase of between 3% to 5%, based on the Consumer Price Index ("CPI"). In March 2006, we paid \$20,207 as a security deposit on this lease, which expired in March 2009. Effective April 1, 2007, we leased additional office space adjoining the existing leased space, increasing our base rent to \$9,764 per month without extending the term of the original lease. The original lease allows for one three-year extension at the market rate and up to \$18,643 in reimbursement for tenant improvements. In June 2008, our rent increased to \$10,215, reflecting a CPI increase of 3% plus an increase in operating costs for the period from April 1, 2008 to March 31, 2009. In September 2008, we executed a lease addendum replacing the one three-year extension with two two-year extensions commencing on April 1, 2009 and renegotiated the first two-year extension base rent to \$10,068 with an adjustment after the first year for CPI between 3% (minimum) and 5% (maximum). In January 2010, the Company entered into a one year lease for administrative offices in San Mateo, California for \$2,655 per month. During the three and nine month periods ended May 31, 2010 and 2009 and the cumulative period from September 8, 2005 (inception) to May 31, 2010, the Company paid \$38,811, \$106,955, \$31,904, \$94,195 and \$475,350, respectively, in rent.



MANAGEMENT

Directors

The following table sets forth the name, age and position of each of our directors as of August 13, 2010.

		Position(s) Held
Name	Age	with the Company
Christopher M. Starr, Ph.D.	58	Chief Executive Officer and Director
Raymond W. Anderson (1)(2)(3)	68	Director
Erich Sager	52	Director
Richard L. Franklin, M.D., Ph.D.	65	Director
(1)(2)		
Llew Keltner, M.D., Ph.D.	60	Director
(1)(2)(3)		

- (1) Member of the Corporate Governance and Nominating Committee.
- (2) Member of the Audit Committee.
- (3) Member of the Compensation Committee.

All of the current members of our board of directors were appointed in connection with the consummation of the 2009 Merger. Prior to the 2009 Merger, Drs. Starr and Franklin, and Messrs. Anderson and Sager served on the board of directors of RPC.

Business Experience and Directorships

The following describes the background of our directors.

Christopher M. Starr, Ph.D., Chief Executive Officer. Dr. Starr has served as the Chief Executive Officer and a director of Raptor Pharmaceutical Corp. since September 2009. Dr. Starr was a co-founder of RPC and has served as the Chief Executive Officer, President and director thereof since its inception in 2006. Dr. Starr has served as Chief Executive Officer of our wholly owned subsidiary, Raptor Pharmaceutical Inc., since its inception in September 2005. Dr. Starr co-founded BioMarin Pharmaceutical Inc., or BioMarin, in 1997 where he last served as Senior Vice President and Chief Scientific Officer prior to joining the Company in 2006. As Senior Vice President at BioMarin, Dr. Starr was responsible for managing a Scientific Operations team of 181 research, process development, manufacturing and quality personnel through the successful development of commercial manufacturing processes for its enzyme replacement products, and supervised the cGMP design, construction and licensing of BioMarin's proprietary biological manufacturing facility. From 1991 to 1998, Dr. Starr supervised research and commercial programs at BioMarin's predecessor company, Glyko, Inc., where he served as Vice President of Research and Development. Prior to his tenure at Glyko, Inc., Dr. Starr was a National Research Council Associate at the National Institutes of Health. Dr. Starr earned a B.S. from Syracuse University and a Ph.D. in Biochemistry and Molecular Biology from the State University of New York Health Science Center, in Syracuse, New York. We nominated Dr. Starr to the Board of Directors due to his extensive experience at BioMarin Pharmaceutical where he was directly

involved in the successful approval of two drugs for orphan indications.

Raymond W. Anderson. Mr. Anderson has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since May 2006. Mr. Anderson worked at Dow Pharmaceutical Sciences, Inc. (a wholly owned subsidiary of Valeant Pharmaceuticals International) from 2003 until he retired in June 2010, had been its Managing Director since August 2009 and was previously its Chief Financial Officer and Vice President, Finance and Administration. Mr. Anderson has more than 30 years of healthcare industry experience, primarily focused in financial management within the biopharmaceutical sector. Prior to joining Dow in 2003, he was Chief Financial Officer for Transurgical, Inc., a private medical technology company.

Prior to that, Mr. Anderson served as Chief Operating Officer and Chief Financial Officer at BioMarin from June 1998 to January 2002. Prior to June 1998, Mr. Anderson held similar executive-level positions with other biopharmaceutical companies including

Syntex, Chiron, Glycomed and Fusion Medical Technologies. Mr. Anderson holds an M.B.A. from Harvard University, an M.S. in Administration from George Washington University and a B.S. in Engineering from the United States Military Academy. We nominated Mr. Anderson to the Board of Directors due to his 30 years of healthcare experience in the areas of operations and finance.

Erich Sager. Mr. Sager has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since May 2006. He is a founding partner of Limetree Capital SA, a Swiss-based investment banking boutique. Mr. Sager also serves as Chairman and member of the board of directors at Calltrade Carrier Services AG, a European wholesale phone operator, and has held such position since 2004. He is also a current board member of Zecotek Medical Systems Inc. and Pulse Capital Corp. Mr. Sager served on the board of directors of BioMarin from November 1997 to March 2006 and as Chairman of LaMont Asset Management SA, a private investment management firm, from September 1996 until August 2004. Mr. Sager has held the position of Senior Vice President, Head of the Private Banking for Dresdner Bank (Switzerland) Ltd., Vice President, Private Banking, Head of the German Desk for Deutsche Bank (Switzerland) Ltd., and various positions at banks in Switzerland. Mr. Sager received a business degree from the School of Economics and Business Administration, Zurich, Switzerland. We nominated Mr. Sager to the Board of Directors due to his knowledge of healthcare fundraising in Europe including through his experience at BioMarin Pharmaceutical.

Richard L. Franklin, M.D., Ph.D. Dr. Franklin has served as a director of Raptor Pharmaceutical Corp. since September 2009 and as a director of RPC since July 2008. Dr. Franklin has served as Chairman of the board of directors of SyntheMed, Inc., a biomaterials company engaged in the development and commercialization of medical devices, since June 2003 and as a director of SyntheMed, Inc., since December 2000. Since September 2002, Dr. Franklin has been Chairman of DMS Data Systems, an internet-based information services company. Dr. Franklin has served as the Chief Executive Officer and Director of Tarix Pharmaceuticals, a drug development company, since 2004 and as Chairman of Pathfinder, LLC, a regenerative medicine company, since 2009. From May 1996 to September 2002, Dr. Franklin had been Chief Executive of Phairson, Ltd., a medical product development company. From January 1991 to May 1996, Dr. Franklin was founder and principal of Richard Franklin & Associates and from January 1988 to December 1990, Dr. Franklin was with Boston Capital Group, both of which are consulting firms to the healthcare industry. From July 1986 to December 1987, Dr. Franklin was head of Healthcare Corporate Finance at Tucker Anthony, an investment banking firm. Dr. Franklin received an M.A. in Mathematics from University of Wisconsin, a Ph.D. in Mathematics from Brandeis University and an M.D. from Boston University School of Medicine. We nominated Dr. Franklin to the Board of Directors due to his experience as a CEO and Chairman of various healthcare companies.

Llew Keltner, M.D., Ph.D. Dr. Keltner has served as a director of Raptor Pharmaceutical Corp. since September 2009. Dr. Keltner is currently Chief Executive Officer and President of Light Sciences Oncology, a privately-held biotechnology company developing a late stage, light-activated therapy for hepatocellular cancer and other solid tumors. He is also Chief Executive Officer of EPISTAT, an international healthcare technology transfer, corporate risk management and healthcare strategy company that he founded in 1972. From 1997 to 2004, Dr. Keltner was Chief Executive Officer of Metastat, a development-stage biotech company focused on cancer metastasis. Dr. Keltner holds positions on the boards of Infostat, Oregon Life Sciences, and Goodwell Technologies. He is a previous director on the boards of Light Sciences Corporation, Vital Choice, Thesis Technologies, Oread Companies, and MannKind Corporation. He has also been a scientific advisory board member at Lifetime Corporation, ASB Meditest, Oread Laboratories, Hall-Kimbrell, and aai Pharma. He is currently a member of the American Society of Clinical Oncology, American Medical Association, International Association of Tumor Marker

Oncology, American Association of Clinical Chemistry, and Drug Information Association. Dr. Keltner received an M.S. in Epidemiology and Biostatistics; Ph.D. in Biomedical Informatics and M.D. from Case Western Reserve University in Cleveland, Ohio. Dr. Keltner has also authored several research publications. We nominated Dr. Keltner to the Board of Directors due to his practical experience as a current CEO of a private life sciences company and due to his medical knowledge and network within the biotechnology industry.

Meetings and Committees of the Board of Directors

The Company

As of August 31, 2009, the Company's board of directors consisted of Dr. Peter Davis, Dr. Steven Ferris, Mr. Steven Ratoff and Ms. Evelyn Graham. Jean Deleage, Patrick Van Benden and Jason Fisherman resigned from the Company's board of directors on May 27, 2009, May 29, 2009 and June 12, 2009, respectively. During the eight months ended August 31, 2009, the Company's directors attended at least 75% of (a) the total number of meetings of the board of directors and (b) the total number of meetings of all committees of the board of directors on which he or she served.

We do not have a formal policy requiring the members of our board of directors to attend our annual meetings of stockholders; however, it is anticipated that most of the directors will attend the annual meeting. None of the Company's directors attended the 2009 annual meeting of stockholders.

There are no arrangements between any director of the Company or executive officer and any other person pursuant to which the director or officer is to be selected as such. There is no family relationship between our directors, executive officers or the director nominees.

Our board of directors has an Audit Committee, a Compensation Committee and a Nominating and Corporate Governance Committee. The function, composition and number of meetings of each of these committees are described below.

Raptor Pharmaceuticals Corp.

During the fiscal year ended August 31, 2009, the board of directors of RPC met eight times, took action by written consent three times and took action by written consent regarding the approval of stock options two times. During the fiscal year ended August 31, 2009, each director of RPC attended at least 75% of (a) the total number of meetings of the board of directors and (b) the total number of meetings of all committees of the board of directors on which he served. One of RPC's directors attended RPC's 2009 annual meeting of stockholders.

Audit Committee

The Company

The audit committee of our board of directors, herein referred to as the Audit Committee, has been established in accordance with Section 3(a)(58)(A) of the Exchange Act. The Audit Committee is responsible for overseeing our accounting and financial reporting processes. In such capacity, our Audit Committee (a) has sole authority to appoint, replace and compensate our independent registered public accounting firm and is directly responsible for oversight of its work; (b) approves all audit fees and terms, as well as any permitted non-audit services performed by our independent registered public accounting firm; (c) meets and discusses directly with our independent registered public accounting firm its audit work and related matters; (d) oversees and performs investigations with respect to our internal and external auditing procedures, including the receipt, retention and treatment of complaints received by us regarding accounting, internal accounting controls or auditing matters and the confidential and anonymous submission by employees of concerns regarding questionable accounting or auditing matters and (e) undertakes such other activities as the Audit Committee deems necessary or advisable and as may be required by applicable law. The Audit Committee's charter can be found in the "Corporate Governance" section of our website at www.raptorpharma.com.

As of August 13, 2010, the Audit Committee consisted of Mr. Anderson (Chairman) and Drs. Franklin and Keltner. Mr. Anderson has been designated as the "audit committee financial expert" as defined by the regulations promulgated by the SEC. Our board of directors has determined that each member of the Audit Committee is

independent as defined by NASDAQ and SEC rules applicable to audit committee members.

Dr. Peter Davis, Dr. Steven Ferris and Mr. Steven Ratoff each served on the Audit Committee during the eight months ended August 31, 2009, with Dr. Davis serving as chairman. The board of directors determined that Dr. Davis and Mr. Ratoff were audit committee financial experts as defined by the regulations promulgated by the SEC and that as of August 31, 2009, all members of the Audit Committee were independent as currently defined in Rule 5605(c)(2)(A)(i) and (ii) of the NASDAQ listing standards and as defined by Rule 10A-3 of the Exchange Act. During the eight months ended August 31, 2009, the Audit Committee met 4 times and did not take action by written consent.

Raptor Pharmaceuticals Corp.

During the fiscal year ended August 31, 2009, the audit committee of RPC consisted of the following two members: Mr. Anderson (Chairman) and Mr. Sager. RPC's board of directors determined that Mr. Anderson, the Chairman of the audit committee of RPC was, as of August 31, 2009, "independent" as that term is defined by Rule 10A-3 of the Exchange Act. Mr. Sager was deemed not "independent" as defined by Rule 10A-3 of the Exchange Act due to the placement agent fees earned

by Limetree Capital, of which Mr. Sager is a founding partner, in connection with RPC's private placements of common stock and warrants conducted in May/June 2008 and August 2009. For more information, see "Certain Relationships and Related Transactions" elsewhere in this prospectus.

During the fiscal year ended August 31, 2009, the audit committee of RPC met four times. The charter of the audit committee of RPC was posted on its website during the fiscal year ended August 31, 2009 and through the date of the 2009 Merger.

Compensation Committee

The Company

The compensation committee of our board of directors, herein referred to as the Compensation Committee, reviews, adopts and oversees our compensation strategy, policies, plans and programs, including (a) the establishment of corporate and individual performance objectives relevant to the compensation of our executive officers, directors and other senior management and evaluation of performance, (b) the review and approval of the terms of employment or service, including severance and change in control arrangements, of our Chief Executive Officer and the other executive officers, (c) the review and recommendation to the board of directors the compensation plans and programs advisable for the Company, including the type and amount of compensation to be paid or awarded to directors; and (d) the administration of our equity compensation plans, pension and profit-sharing plans, deferred compensation plans and other similar plan and programs.

The Compensation Committee also reviews with management our Compensation Discussion and Analysis and considers whether to recommend that it be included in proxy statements and other filings.

The Compensation Committee's charter can be found in the "Corporate Governance" section of our website at www.raptorpharma.com. As of August 13, 2010, the Compensation Committee consisted of Mr. Anderson (Chairman) and Dr. Keltner. Our board of directors has determined that each member of the Compensation Committee is independent as defined by NASDAQ rules.

During the eight months ended August 31, 2009, the Compensation Committee consisted of Mr. Ratoff, Dr. Fisherman, who resigned from the Company's board of directors effective June 12, 2009, and Mr. Van Beneden, who resigned from the Company's board of directors effective May 29, 2009. During the eight months ended August 31, 2009, the Compensation Committee did not meet and did not take action by written consent.

Raptor Pharmaceuticals Corp.

During the fiscal year ended August 31, 2009, the compensation committee of RPC consisted of the following two members: Mr. Sager (Chairman) and Mr. Anderson. As of August 31, 2009, Messrs. Sager and Anderson were

non-employee directors and Mr. Anderson was considered to be independent. During the fiscal year ended August 31, 2009, the compensation committee of RPC did not meet and did not take action by written consent, however, during such period, certain actions with respect to the compensation of RPC's executive officers and management were taken either at a meeting or by written consent of the full board of directors, with Dr. Starr abstaining from the discussions and actions with respect to his own salary. The charter of the compensation committee of RPC was posted on its website during the fiscal year ended August 31, 2009 and through the date of the 2009 Merger.

Corporate Governance and Nominating Committee and other Committees

The Company

The corporate governance and nominating committee of our board of directors, herein referred to as the Nominating Committee, has authority to review the qualifications of, interview and nominate candidates for election to our board of directors as well as develop a set of corporate governance principles for the Company. The primary functions of our Nominating Committee are to (a) recruit, review and nominate candidates for election to our board of directors, (b) monitor and make

recommendations regarding committee functions, contributions and composition, (c) develop the criteria and qualifications for membership on our board of directors, and (d) provide oversight on all aspects of the Company's corporate governance functions.

The Nominating Committee develops the credentials and characteristics required of our board of directors and committee nominees in light of the composition of our board of directors and committees thereof, our business, operations, applicable legal and listing requirements, and other factors they consider relevant. The Nominating Committee may identify other candidates, if necessary, through recommendations from our directors, management, employees, the stockholder nomination process, or outside consultants. The Nominating Committee will review candidates in the same manner regardless of the source of the recommendation. For membership on our board of directors, the Nominating Committee takes into consideration applicable laws and regulations, diversity, age, skills, experience, integrity, ability to make independent analytical inquiries, understanding of our business and business environment, willingness to devote adequate time and effort to our board of directors' responsibilities and other relevant factors, including experience in the biotechnology and pharmaceutical industries. Although we do not have a formal diversity policy, when considering diversity in evaluating candidates, the Nominating Committee focuses on whether candidates can contribute varied perspectives, skills, experiences and expertise to the Board. The Nominating Committee's charter can be found in the "Corporate Governance" section of our website at www.raptorpharma.com.

As of August 13, 2010, the Nominating Committee consisted of Dr. Keltner (Chairman), Dr. Franklin and Mr. Anderson. Our board of directors has determined that each member of the Nominating Committee is independent as defined by NASDAQ rules.

During the eight months ended August 31, 2009, the Nominating Committee consisted of Mr. Steven Ratoff, Dr. Deleage, who resigned from the Company's board of directors effective May 27, 2009, and Dr. Davis. During the eight months ended August 31, 2009, the Nominating Committee did not meet and did not take action by written consent.

Raptor Pharmaceuticals Corp.

During the fiscal year ended August 31, 2009, the nominating and corporate governance committee of RPC consisted of the following members: Mr. Sager, Mr. Anderson, Dr. Franklin and Dr. Starr. During the fiscal year ended August 31, 2009, the nominating and corporate governance committee of RPC did not formally meet and did not take action by written consent. In September 2009, upon recommendation from Dr. Starr, the remaining three directors (Mr. Sager, Dr. Franklin and Mr. Anderson) individually met with Dr. Keltner in order to determine the suitability of Dr. Keltner for joining the Company's board of directors in order to fulfill the Company's post-merger corporate governance commitments and NASDAQ listing requirements.

After several discussions with Dr. Keltner and amongst the members of RPC's board of directors prior to Dr. Keltner's appointment, the board determined that, based upon Dr. Keltner's experience in the healthcare industry, it was in the best interest of the Company and its stockholders to appoint Dr. Keltner to the Company's board of directors following the 2009 Merger. The stock option committee of RPC through August 31, 2009 consisted of: Mr. Sager, Mr. Anderson, Dr. Franklin and Dr. Starr. Such committee was responsible for the administration of the 2006 Equity

Incentive Plan, as amended, including the approval of grants under such plan to the employees, consultants and directors of RPC. During the fiscal year ended August 31, 2009, RPC's stock option committee took action in a meeting one time and by unanimous written consent two times.

Independence of Our Board of Directors

The Company

Our board of directors has determined that all current members of our board of directors are independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards), except for Dr. Starr and Mr. Sager.

Our board of directors has determined that as of August 31, 2009, all members of the board of directors as of that time were independent (as independence is currently defined in Rule 5605(a)(2) of the NASDAQ listing standards) except for Ms. Graham.

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Raptor Pharmaceuticals Corp.

During the fiscal year ended August 31, 2009, two of the four members of the board of directors of RPC were independent (Mr. Anderson and Dr. Franklin) and except for Mr. Sager, all of the members of the audit committee of RPC were independent.

Director Compensation

The Company

Effective October 1, 2009, the Company's non-employee directors receive the following compensation: \$60,000 cash compensation annually paid quarterly in arrears to the Chairman of the board and \$40,000 cash compensation annually paid quarterly in arrears to all other non-employee directors. No cash compensation is paid to our Chief Executive Officer for his services as a member of our board of directors. No formal plan exists regarding non-cash compensation to our non-employee directors at this time, but it is anticipated that a plan will be implemented over the next 12 months.

With respect to the eight months ended August 31, 2009, the Company's non-employee directors received as compensation:

- an annual retainer of \$20,000 payable on the date of the annual meeting of the Company's stockholders;
- an additional annual retainer of \$20,000 for the Chairman of the Board payable on the date of the annual meeting of the Company's stockholders;
- an annual \$10,000 retainer for service as the Audit Committee chair payable on the date of the annual meeting of the Company's stockholders;
- an annual \$10,000 retainer for service as the Compensation Committee chair payable on the date of the annual meeting of the Company's stockholders;
- an annual \$3,000 retainer for service as the Corporate Governance and Nominating Committee chair payable on the date of the annual meeting of the Company's stockholders;
- \$1,500 per board meeting attended in person or telephonically; and
- \$1,000 per meeting of the Audit Committee, Compensation Committee or Nominating Committee attended in person or telephonically.

In addition to the cash compensation set forth above, on the date of each annual meeting of stockholders, each continuing non-employee director was entitled to receive an annual stock option grant for 10,000 shares of our common stock which would fully vest on the one year anniversary of the grant date. Each non-employee director who first becomes a director of the Company was entitled to receive an initial stock option grant for 20,000 shares which would vest over four years in equal monthly installments. Stock options granted to non-employee directors, if any, have an exercise price equal to the closing price of the Company's common stock on the date of grant as reported by NASDAQ. Non-employee directors were also reimbursed for reasonable out-of-pocket expenses incurred in attending board meetings and committee meetings.

During the eight months ended August 31, 2009, the Company's non-employee directors were paid the following cash compensation: Mr. Ratoff, \$16,750; Dr. Davis, \$15,750; and Dr. Ferris, \$15,750. No stock options were granted to any non-employee directors during the eight months ended August 31, 2009

Raptor Pharmaceuticals Corp.

Upon joining RPC's board of directors on May 26, 2006, Mr. Anderson and Mr. Sager were granted stock options to purchase 500,000 shares and 1,000,000 shares, respectively, of common stock of RPC at respective exercise prices of \$0.60 per share. Such stock options vested 6/36ths on the six month anniversary of such grant and 1/36th per month thereafter and expire ten years from grant date. Due to the 2009 Merger, the options to purchase 500,000 shares and 1,000,000 shares, respectively, of common stock of RPC described above were exchanged for options to purchase 116,562 shares and 233,124 shares, respectively, of our common stock at respective exercise prices of \$2.57 per share. Upon joining the board of directors of RPC on July 10, 2008, Dr. Franklin was granted stock options to purchase 150,000 shares of common stock of RPC at an exercise price of \$0.52 per share, which vests 6/48ths on the six-month anniversary of such grant and 1/48th per month thereafter and expires ten years from grant date. Due to the 2009 Merger, the options to purchase 150,000 shares of common stock of RPC described above were exchanged for options to purchase 34,969 shares of our common stock at an exercise price of \$2.23 per share.

In addition, at the discretion of the stock option committee of RPC's board of directors, each non-employee director of RPC was entitled to receive options to purchase 100,000 shares of the company's common stock for each subsequent year of service on the company's board of directors. Such options were generally granted at fair market value one day preceding the grant date, vest 6/48ths on the six month anniversary of the grant date and 1/48th per month thereafter and expire ten years from grant date. RPC made these grants to Mr. Anderson and Mr. Sager with respect to its fiscal year ended August 31, 2007, on June 14, 2007 at a per share exercise price of \$0.60. No such annual grants were approved for the fiscal year ended August 31, 2009 or the fiscal year ended August 31, 2008. If such annual grants were approved, due to the 2009 Merger, any such outstanding options to purchase shares of common stock of RPC would have been exchanged (on a converted basis) for options to purchase shares of our common stock. In the case of options to purchase 100,000 shares of our common stock, such options would have been converted into options to purchase 23,313 shares of our common stock. On a converted basis, due to the 2009 Merger, such outstanding options of Messrs. Anderson and Sager to purchase shares of common stock of RPC were exchanged for options to purchase 23,313 shares of our common stock at an exercise price of \$2.57 per share.

The following table sets forth the total compensation paid by RPC to each of its non-employee directors during the fiscal year ended August 31, 2009. Dr. Starr, who was an employee of RPC, did not receive additional compensation for his service as a director. Dr. Keltner was appointed to the board of directors of Raptor Pharmaceutical Corp. immediately following the 2009 Merger on September 30, 2009 and was granted stock options to purchase up to 34,968 of our shares at an exercise price of \$3.30 per share, which vested 6/48ths on March 30, 2010 and 1/48th per month thereafter, with an expiry of ten years. Dr. Keltner's annual compensation for his services as a director is \$40,000.

	Fees Earned or	Option	
Name	Paid in Cash (\$)	Awards(5)	Total(\$)
Raymond W. Anderson (2)	40,000	60,583	100,583
Erich Sager (3)	60,000	111,281	171,281
Richard L. Franklin, M.D. Ph.D.	40,000	14,751	54,751
(4)			

^{*}As discussed elsewhere in this prospectus, the relevant options are options to purchase common stock of Raptor Pharmaceutical Corp., and the number of securities underlying such options as well as the option exercise prices have been converted to their equivalent post-2009 Merger number of securities and equivalent post-2009 Merger exercise prices, respectively.

- (2) Mr. Anderson had 139,875 options outstanding as of August 31, 2009, of which 129,189 were exercisable.
- (3) Mr. Sager had 256,437 options outstanding as of August 31, 2009, of which 245,751 were exercisable.
- (4) Dr. Franklin had 34,969 options outstanding as of August 31, 2009, of which 9,470 were exercisable.

(5)

⁽¹⁾ Amounts shown do not reflect compensation actually received by a director, but reflect the dollar amount compensation cost recognized by the Company for financial statement reporting purposes (disregarding an estimate of forfeitures related to service-based vesting conditions) for the fiscal year ended August 31, 2009, in accordance with Financial Accounting Standards Board Accounting Standards Codification Topic 718, Compensation—Stock Compensation, herein referred to as ASC Topic 718, and thus may include amounts from awards granted in and prior to the fiscal year ended August 31, 2009. The assumptions underlying the calculations pursuant to ASC Topic 718 are set forth under Note 8 of the Notes to Consolidated Financial Statements, beginning on page 66 of RPC's Annual Report on Form 10-K for the fiscal year ended August 31, 2009 filed with the SEC on October 28, 2009.

In March 2010, each member of our Board of Directors received options to purchase 15,000 shares of our common stock at an exercise price of \$2.02 per share. Such options vest 6/48ths upon grant and 1/48ths per month thereafter.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors, executive officers and 10% stockholders of a registered class of equity securities to file reports of ownership and reports of changes in ownership of our common stock and other equity securities with the SEC. Directors, executive officers and 10% stockholders of a registered class of equity securities are required to furnish us with copies of all Section 16(a) forms they file. To our knowledge, based on a review of the copies of such reports furnished to us, we believe that during the fiscal year ended August 31, 2009, our directors, executive officers and 10% stockholders of a registered class of equity securities timely filed all Section 16(a) reports applicable to them. Since September 1, 2009, the following Form 4s were filed late: Dr. Rioux filed a Form 4 on July 9, 2010, which was seven business days late, reporting the receipt of a stock option grant in fulfillment of a milestone; Mr. Daley filed a Form 4 on July 9, 2010, which was eight business days late, reporting the receipt of restricted common stock in fulfillment of a milestone; and Dr. Franklin filed a Form 4 on March 12, 2010, which was one day late, reporting the receipt of a stock option grant for compensation for his services as a director.

Code of Ethics

The Company has adopted a Code of Business Conduct and Ethics, which is applicable to our directors and employees, including our principal executive officer, principal financial officer, principal accounting officer or controller or persons performing similar functions. Our Code of Ethics is posted on the Corporate Governance section of our website at www.raptorpharma.com.

Executive Officers

The following table sets forth the name, age, date first appointed to serve as an executive officer, and position held by each of our executive officers not discussed above as of August 13, 2010. Our executive officers are elected by our board of directors and serve at the discretion of our board of directors.

		Position(s) Held
Name	Age	with the Company
Todd C. Zankel, Ph.D.	47	Chief Scientific Officer, Raptor Pharmaceutical
		Corp. and Raptor Pharmaceuticals Corp.
Thomas (Ted) E. Daley	47	President, Raptor Therapeutics Inc.
		(f/k/a Bennu Pharmaceuticals Inc.)
Patrice P. Rioux, M.D., Ph.D.	59	Chief Medical Officer, Raptor Therapeutics Inc.
		(f/k/a Bennu Pharmaceuticals Inc.)
Kim R. Tsuchimoto	47	Chief Financial Officer, Treasurer and Secretary,
		Raptor Pharmaceutical Corp. and Raptor
		Pharmaceuticals Corp.

The following describes the background of our executive officers.

Todd C. Zankel Ph.D. As of September 29, 2009, Dr. Zankel was appointed our Chief Scientific Officer. Prior to that, Dr. Zankel was a co-founder and has been Chief Scientific Officer of our wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Pharmaceuticals Corp., since their inception in 2006. From 1997 to 2005, Dr. Zankel served as a Senior Director of Research at BioMarin. Prior to 1997, Dr. Zankel was a fellow for the National Institutes of Health at the Plant Gene Expression Center in Berkeley, California and at the Swiss Institute of Technology in Zurich, Switzerland. Dr. Zankel has been the author of a number of peer-reviewed articles in a variety of scientific areas. Dr. Zankel earned a B.A. from Reed College in Portland, Oregon and a Ph.D. from Columbia University.

Thomas (Ted) E. Daley. As of September 29, 2009, Mr. Daley joined us as President and a board member of Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), a wholly-owned indirect subsidiary acquired in the 2009 Merger. Mr. Daley joined Raptor Therapeutics Inc. following the acquisition by it of Convivia, Inc., which Mr. Daley founded. Mr. Daley was co-founder, VP business development and chief operating officer of Instill Corporation, a leading electronic commerce services provider to the US foodservice industry. Between 1993 and 2001 Mr. Daley helped raise over \$50 million in venture capital and build Instill to a 150+ person operation with a nationwide customer base. After leaving Instill, from 2001 and 2007, Mr. Daley served in executive and consulting roles to a number of technology startup companies including MetricStream, Inc., PartsRiver and Certicom Security. Prior to that

time, Mr. Daley worked in operations management for Anheuser-Busch, Inc., and consulted to Gordon Biersch Brewing Company and Lion Breweries (New Zealand). Mr. Daley received a BS in Fermentation Science from University of California at Davis, and an MBA from Stanford University.

Patrice P. Rioux, M.D., Ph.D. As of September 29, 2009, Dr. Rioux joined us as Chief Medical Officer of Raptor Therapeutics Inc. (f/k/a Bennu Pharmaceuticals Inc.), a wholly-owned indirect clinical subsidiary acquired in the 2009 Merger. Prior to joining Raptor Therapeutics Inc. in April 2009, from November 2008 until March 2009, Dr. Rioux served as Chief Medical Officer of FerroKin Biosciences, an early-stage developer of iron chelator for treatment of anemias. From May 2005 to October 2008, he was Chief Medical Officer and Vice President Clinical/Regulatory for Edison Pharmaceuticals, which focused on developing drugs to treat inherited and acquired energy impairment diseases. From January 2004 through March 2006, Dr. Rioux was an independent clinical operations consultant. Dr. Rioux' three-decade career includes positions at Repligen Corp.,

Arrow International, Variagenics, Inc., Biogen and GRP (Groupement de Recherche en Pharmacologie). From 1975 to 1995, Dr. Rioux was a researcher in Clinical Research and Epidemiology at INSERM (Institut National de la Sante et de la Recherche Medicale), a French organization that supports national research in the medical field. Educated in France, Dr. Rioux has an M.D., a Ph.D. in Mathematical Statistics, and a Masters degree in Pharmacology.

Kim R. Tsuchimoto. As of September 29, 2009, Ms. Tsuchimoto was appointed our Chief Financial Officer, Treasurer and Secretary. Prior to that Ms. Tsuchimoto has served as the Chief Financial Officer, Treasurer and Secretary of our wholly owned subsidiaries, Raptor Pharmaceutical Inc. and Raptor Pharmaceuticals Corp., since their respective inceptions in 2006. Prior to this, Ms. Tsuchimoto served as Interim Controller at International Microcomputer Software, Inc., a software and Internet content company, from October 2005 to March 2006. From June 2005 to August 2005, Ms. Tsuchimoto served as Assistant Vice President, Controller at SpatiaLight Inc., a high technology company.

From February 1997 to June 2005, Ms. Tsuchimoto served at BioMarin and its predecessor company, Glyko, Inc., most recently as Vice President, Treasurer for two years, Vice President, Controller for two years and prior to that, as Controller. Prior to her employment at BioMarin, Ms. Tsuchimoto served as Controller of a marketing consulting firm and an international venture capital firm and worked as a staff accountant in a local public accounting firm. Ms. Tsuchimoto is an inactive licensed California Certified Public Accountant and holds a B.S. in Business Administration with an emphasis in Accounting from San Francisco State University.

Relationships Among Executive Officers and Directors

Our executive officers are elected by our board of directors on an annual basis and serve until their successors have been duly elected and qualified. There are no family relationships among any of our directors or executive officers.

Risk Assessment in Compensation Programs

In compliance with new SEC disclosure requirements, we have evaluated our compensation policies and practices to determine if any of our programs create risks that are reasonably likely to have a material adverse effect on the Company. We have concluded that our compensation policies and practices do not create any such risks. We evaluated our executive, as well as our broad-based compensation and benefits programs. We focused on looking at whether any program's elements, criteria, purposes or objectives create undesired or unintended risk of a material nature. While all programs were evaluated, primary review and attention was placed on programs having potential for variable payouts where an individual participant might have the ability to directly affect, control or impact payout results. We are satisfied that all compensation programs are structured with appropriate controls, objective measurement variables, review authorities and payment methodologies that, in the aggregate, are designed and administered so that there is not any reasonable likelihood of material adverse risks to the Company arising from or caused by any of our compensation programs.

Compensation Policies and Practices

Our compensation program is intended to reward the management team and other employees for strong performance over the long-term, with consideration to near-term actions and results that strengthen and protect the Company. We consider the potential risks in our business when designing and administering our pay program, and we believe our balanced approach to performance measurement and pay delivery works to avoid misaligned incentives for individuals to undertake excessive or inappropriate risk. Further, program administration is subject to internal controls, and when determining the principal outcomes – performance assessments and pay decisions – we rely on principles of sound governance and good business judgment.

Compensation Risks

We believe that risks arising from our compensation policies and practices for our employees are not reasonably likely to have a material adverse effect on the Company. In addition, the Compensation Committee believes that the mix and design of the elements of executive compensation do not encourage management to assume excessive risks.

The Compensation Committee, with reference to appropriate industry-specific guidelines, extensively reviewed the elements of executive compensation to determine whether any portion of executive compensation encouraged excessive risk taking and concluded:

- significant weighting towards long-term incentive compensation discourages short-term risk taking;
- for most employees, base salary makes up a significant majority of compensation;
- goals are appropriately set to avoid targets that, if not achieved, result in a large percentage loss of compensation;
- equity ownership guidelines discourage excessive risk taking; and
- as a pharmaceutical company, the Company does not face the same level of risks associated with compensation for employees at financial services (traders and instruments with a high degree of risk) or technology companies (rapidly changing markets).

Furthermore, as described in our Compensation Discussion and Analysis, compensation decisions include subjective considerations, which restrain the influence of formulae or objective factors on excessive risk taking.

EXECUTIVE COMPENSATION

This section includes executive compensation information regarding the Company. In addition, due to the fact that the 2009 Merger was consummated in September 2009, we have also included information with respect to the executive compensation of Raptor Pharmaceuticals Corp., or RPC.

Compensation Discussion and Analysis

Overview

The Compensation Committee of our board of directors has overall responsibility for the compensation program for our executive officers. Specifically, our Compensation Committee establishes policies and otherwise discharges the responsibilities of our board of directors with respect to the compensation of our executive officers, senior management, and our other employees. In evaluating executive officer pay, the Compensation Committee may retain the services of an independent compensation consultant or research firm and consider recommendations from the chief executive officer and persons serving in supervisory positions over a particular officer or executive officer with respect to goals and compensation of the other executive officers. The executive officers are not present or involved in deliberations concerning their compensation. Our Compensation Committee assesses the information it receives in accordance with its business judgment. All decisions with respect to executive compensation, other than compensation for our Chief Executive Officer, are first approved by our Compensation Committee and then submitted, together with the Compensation Committee's recommendations, to our full board of directors for final approval. Compensation of our Chief Executive Officer is generally approved only by our Compensation Committee.

We choose to pay the various elements of compensation discussed in order to attract and retain the necessary executive talent, reward annual performance and provide incentive for primarily long-term strategic goals, while considering short-term performance.

Elements of compensation for our executives generally include:

- base salary (typically subject to upward adjustment annually based on inflation factors, industry competitive salary levels, and individual performance);
- cash bonuses:
- stock option awards;
- 401(k) plan contributions; and
- health, disability and life insurance.

We believe that the compensation of our executives should reflect their success in attaining key objectives and individual factors. The key objectives include: (1) establishing and executing on program milestones within planned budgetary expenditures; (2) securing adequate funds to achieve program objectives and to maintain our solvency and moderate financial risk; (3) meeting or exceeding program timelines and milestones; (4) expanding our preclinical product pipeline through creation of novel proprietary products or by utilization of technology, or acquiring or in-licensing new pre-clinical or clinical products and technology; (5) creating corporate partnerships, contracts,

collaborations and out-licensing product technologies to achieve strategic objectives; (6) submitting and receiving satisfactory results of regulatory submissions; (7) establishing long-term competitive advantages, which leads to attaining an increased market price for our stock; (8) asset growth; and (9) developing a strong intellectual property position, which enhances the value of our product candidates and technologies.

The key individual factors for each executive include: (1) the value of their unique skills and capabilities to support our long-term performance; (2) performance of their management responsibilities; (3) whether an increase in responsibility or change in title is warranted; (4) leadership qualities; (5) business responsibilities; (6) current compensation arrangements, especially in comparison to the compensation of other executives in similar positions in competitive companies within our industry; (7) short- and long-term potential to enhance stockholder value; and (8) contribution as a member of the executive management team.

Our allocation between long-term and currently paid compensation is intended to ensure adequate base compensation to attract and retain personnel, while providing incentives to maximize long-term value for us and our stockholders. We provide cash compensation in the form of base salary and annual, discretionary cash bonuses to reward performance against pre-set written goals and objectives. We provide non-cash compensation to reward performance against specific objectives and long-term strategic goals.

The compensation package for the Company's executive officers for the eight months ended August 31, 2009 ranged from 82% to 75% in cash compensation and 18% to 25% in non-cash compensation, including benefits and equity-related awards. We believe that this ratio is competitive within the marketplace for companies at our stage of development and appropriate to fulfill our stated policies. The compensation package for the executive officers of RPC for its fiscal year ended August 31, 2009 ranged from 100% to 90% in cash compensation and 0% to 10% in non-cash compensation, including benefits and equity-related awards.

Elements of Compensation

Base Salary

The Company

Base salaries for the Company's executives are established based on the particular scope of each executive's responsibilities as well as their qualifications, experience and performance, taking into account competitive market compensation paid by other companies in our peer group for individuals with similar responsibilities. Base salaries are reviewed annually, and additionally may be adjusted from time to time to realign salaries with market levels after taking into account individual responsibilities, performance and experience. The Compensation Committee intends to conduct an annual review of base salaries, and the overall compensation package, each year toward the end of the year.

During the months of November and December 2008 and January 2009, the Compensation Committee, along with the Company's board of directors, had numerous informal discussions regarding the appropriate compensation packages for the Company's executives. The Compensation Committee, in conjunction with the Company's board of directors, determined that given the Company's financial constraints there would be no salary adjustment for 2009 and no bonuses paid for 2009.

		Annual Base
		Salary*
Evelyn A. Graham	Former Chief Executive Officer of TorreyPines	\$350,000
	Therapeutics, Inc., Currently President of TPTX, Inc., our	
	wholly-owned subsidiary	
Craig A. Johnson	Former Chief Financial Officer of TorreyPines	\$282,000
	Therapeutics, Inc., Currently Vice President, Finance of	
	TPTX, Inc., our wholly-owned subsidiary	
Paul R. Schneider	Former VP, General Counsel of TorreyPines Therapeutics,	\$217,700
	Inc., Currently VP, General Counsel of TPTX, Inc., our	
	wholly-owned subsidiary	

^{*}Pursuant to the 2009 Merger Agreement, three former officers of the Company retained positions at TPTX, Inc., a wholly-owned subsidiary of Raptor Pharmaceutical Corp., for a transition period ending on February 28, 2010,

during which time such former officers continue to provide services to us with a focus on raising funds in our wholly-owned subsidiary to enable us to continue the development of NGX 426 and tezampanel.

Raptor Pharmaceuticals Corp.

The compensation committee of RPC established base salary compensation for its executive officers for the fiscal year ended August 31, 2009 taking into account: (1) the officer's equity interest in RPC; (2) RPC's status as an early-stage development company; (3) competitive levels of compensation; and (4) RPC's ability to pay at this stage of its funding cycle. RPC's compensation committee considered individual performance and salaries paid to executive officers of other biotechnology companies similar in size, stage of development and other characteristics. In making its recommendations, RPC's compensation committee took into account recommendations submitted by persons serving in a supervisory position over a particular executive officer. In July 2008, RPC's compensation committee hired an outside consultant to review its executive compensation and compensation for positions in which it was recruiting in order to offer a competitive compensation package to new employees and in an effort to compensate its executives closer to competitive levels. The outside consultant utilized a well-established industry salary survey and benchmarked RPC's executive salaries with salaries of companies of similar size and located in the San Francisco Bay Area. Due to the significant differences between market rates and executive base salaries for the fiscal year ended

August 31, 2007, RPC's compensation committee recommended a pro rata three-step increase (over three years) for Dr. Starr, its Chief Executive Officer, and a pro rata two-step increase (over two years) for Dr. Zankel, Ms. Tsuchimoto and Mr. Daley.

		Annual
		Base Salary
Christopher M. Starr, Ph.D.	Chief Executive Officer, President and Director of	\$213,610*
	Raptor Pharmaceuticals Corp.	
Todd C. Zankel, Ph.D.	Chief Scientific Officer of Raptor Pharmaceuticals	\$192,300*
	Corp.	
Kim R. Tsuchimoto	Chief Financial Officer, Secretary and Treasurer of	\$208,401*
	Raptor Pharmaceuticals Corp.	
Ted Daley	- -	