

Radius Health, Inc.
Form S-1
June 23, 2011

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As filed with the Securities and Exchange Commission on June 23, 2011

Registration No. 333-

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM S-1

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

Radius Health, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

2834
(Primary Standard Industrial
Classification Code Number)
201 Broadway, 6th Floor
Cambridge, MA, 02139
(617) 551-4700

80-0145732
(I.R.S. Employer
Identification Number)

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

C. Richard Lyttle, Ph.D.
Chief Executive Officer
Radius Health, Inc.
201 Broadway, 6th Floor
Cambridge, MA, 02139
(617) 551-4700

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copies to:

Julio E. Vega, Esq.
Matthew J. Cushing, Esq.
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One Federal Street
Boston, Massachusetts 02110
(617) 951-8000

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**Approximate date of commencement of proposed sale to the public:
Promptly after the effective date of this Registration Statement, subject to applicable contractual lock-up agreements.**

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.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) 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(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 definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

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

(Do not check if a smaller reporting company)

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Aggregate Offering Price per Share	Proposed Maximum Aggregate Offering Price(2)	Amount of Registration Fee
Common Stock, \$0.0001 par value per share(3)	555,594	\$8.14(4)	\$4,523,647	\$526
Common Stock, \$0.0001 par value per share(5)	15,491,300	\$8.14(4)	\$126,130,165	\$14,644
Common Stock, \$0.0001 par value per share(6)	266	\$15.00(7)	\$3,990	\$1
Common Stock, \$0.0001 par value per share(8)	38,880	\$8.14(9)	\$316,561	\$37

(1) This Registration Statement covers the resale by our selling stockholders of up to 16,086,040 shares of our common stock.

(2) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(o) under the Securities Act of 1933, as amended.

(3) Consists of 555,594 shares of our currently issued common stock to be offered by the selling stockholders.

(4) Our common stock is not traded on any national exchange and in accordance with Rule 457; the offering price was determined based upon a per share amount of \$8.14, the negotiated conversion price of our convertible preferred stock and the minimum price at which certain selling stockholders may sell their shares of common stock until the common stock is registered on a national securities exchange.

(5) Consists of 15,491,300 unissued shares of our common stock to be offered for resale by certain selling stockholders upon the conversion of 1,549,130 currently outstanding shares of our convertible preferred stock.

(6) Consists of 266 unissued shares of our common stock to be offered for resale by certain selling stockholders upon the exercise of outstanding common stock purchase warrants.

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- (7) Fee is based on the exercise price of \$15.00 per share applicable to shares issuable upon the exercise of common stock purchase warrants in accordance with Rule 457(g) of the Securities Act of 1933, as amended.
- (8) Consists of 38,880 unissued shares of our common stock to be offered for resale by certain selling stockholders upon the conversion of 3,880 shares of our convertible preferred stock to be issued upon exercise of outstanding preferred stock purchase warrants.
- (9) Fee is based on the price of \$8.142 which was determined in accordance with Rule 457(g) of the Securities Act of 1933, as amended, by dividing the exercise price of \$81.42 per share of convertible preferred stock by ten, as each share of convertible preferred stock is convertible into ten shares of common stock.
-

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 OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE SECURITIES AND EXCHANGE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(A), MAY DETERMINE.

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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 state where the offer or sale is not permitted.

**OFFERING PROSPECTUS
SUBJECT TO COMPLETION, DATED JUNE 23, 2011**

Radius Health, Inc.

**16,086,040 Shares
Common Stock**

The selling stockholders identified on pages 64 - 66 of this prospectus are offering on a resale basis a total of up to 16,086,040 shares of our Common Stock, \$0.0001 par value per share ("Common Stock"), consisting of (i) 555,594 currently issued shares of our Common Stock to be offered for resale by certain selling stockholders, (ii) 15,491,300 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 1,549,130 outstanding shares of our convertible preferred stock, \$0.0001 par value per share ("Preferred Stock") (iii) 266 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the exercise of outstanding common stock purchase warrants, and (iv) 38,880 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 3,880 shares of our Preferred Stock to be issued upon exercise of outstanding preferred stock purchase warrants

There is not currently, and there has never been, any market for any of our securities. Our securities are not eligible for trading on any national securities exchange, the Nasdaq or other over-the-counter markets, including the OTC Bulletin Board®. The selling stockholders identified herein have agreed not to sell the common stock (including shares of common stock issued upon conversion of preferred stock and exercise of warrants) registered hereunder for a price less than \$8.142 per share until such time as such restriction is lifted and such securities are eligible for trading on a national securities exchange, the Nasdaq or the OTC Bulletin Board®. At and after such time that such securities are eligible for trading in such a manner, the selling stockholders may sell such securities at the prevailing market price or at a privately negotiated price.

**The securities offered by this prospectus involve a high degree of risk.
See "Risk Factors" beginning on page 5.**

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved these securities or determined that this prospectus is truthful or complete. A representation to the contrary is a criminal offense.

The date of this Prospectus is _____, 2011.

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PROSPECTUS SUMMARY

The following summary highlights selected information contained elsewhere in this Prospectus. This summary does not contain all the information that you should consider before investing in our securities. You should carefully read the entire Prospectus, paying particular attention to the risks referred to under the heading "Risk Factors."

About This Offering

This Prospectus relates to the resale of up to 16,086,040 shares of our Common Stock to be offered by the selling stockholders consisting of (i) 555,594 currently issued shares of our Common Stock to be offered for resale by certain selling stockholders, (ii) 15,491,300 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 1,549,130 outstanding shares of our Preferred Stock, (iii) 266 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the exercise of outstanding common stock purchase warrants, and (iv) 38,880 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 3,880 shares of our Preferred Stock to be issued upon exercise of outstanding preferred stock purchase warrants.

Summary of the Shares offered by the Selling Stockholders.

The following is a summary of the shares being offered by the selling stockholders:

Securities Offered	16,086,040 shares of our Common Stock to be offered by the selling stockholders consisting of: (i) 555,594 currently issued shares of our Common Stock to be offered for resale by certain selling stockholders, (ii) 15,491,300 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 1,549,130 outstanding shares of our Preferred Stock, (iii) 266 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the exercise of outstanding common stock purchase warrants, and (iv) 38,880 unissued shares of our Common Stock to be offered for resale by certain selling stockholders upon the conversion of 3,880 shares of our Preferred Stock to be issued upon exercise of outstanding preferred stock purchase warrants.
Use of Proceeds	We will not receive any proceeds from the sale of the Common Stock offered by the selling stockholder. However, we will generate proceeds in the event of a cash exercise of the warrants by the selling stockholder. We intend to use those proceeds, if any, for general corporate purposes.
Risk Factors	The securities offered hereby involve a high degree of risk. See "Risk Factors" beginning on page 5.
Offering Price	All or part of the shares of Common Stock offered hereby may be sold from time to time in amounts and on terms to be determined by the selling stockholder at the time of sale.
Market for Our Shares	There is not now and never has been any market for our securities and an active market may never develop.

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The Company

We were incorporated in the state of Delaware on February 4, 2008 under the name MPM Acquisition Corp. In May 2011, we entered into a reverse merger transaction (the "Merger") with Radius Health, Inc., a Delaware corporation formed on October 3, 2003 (the "Target") pursuant to which Target became a wholly-owned subsidiary of ours. Immediately following the merger transaction, Target was merged with and into us, we assumed the business of Target and changed our name to "Radius Health, Inc."

Recent Developments

At the effective time of the Merger (the "Effective Time"), all of the shares of Target's common stock, par value \$.01 per share (the "Target Common Stock"), and shares of Target's preferred stock, par value \$.01 per share (the "Target Preferred Stock"), that were outstanding immediately prior to the Merger were cancelled and each outstanding share of Target Common Stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one share of our Common Stock and each outstanding share of Target Preferred Stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one-tenth of one share of our corresponding series of Preferred Stock as consideration for the Merger. In the Merger, we assumed all options and warrants of Target outstanding immediately prior to the Effective Time. Prior to the Merger, pursuant to the terms of a Redemption Agreement dated March 25, 2011, we completed the repurchase of all of our capital stock issued and outstanding immediately prior to the Merger. Upon completion of the Merger and the redemption, the former stockholders of Target held 100% of the outstanding shares of our capital stock. Pursuant to the Merger, we assumed all of the Target's obligations under its existing contracts, including those filed herewith as material contracts. In particular, we have assumed the obligations of Target under that certain Series A-1 Convertible Preferred Stock Purchase Agreement (the "Original Purchase Agreement") with certain investors listed therein (the "Investors") pursuant to which, among other things, Target agreed to issue and sell to the Investors up to an aggregate of 7,895,535 shares of Series A-1 Convertible Preferred Stock, par value \$.01 per share, to be completed in three closings (the initial closing, the "Stage I Closing", the second closing, the "Stage II Closing" and the final closing, the "Stage III Closing") (collectively, the "Series A-1 Financing"). The Original Purchase Agreement was subsequently amended by Amendment No. 1 thereto to eliminate all closing conditions previously provided for in the Original Purchase Agreement (as so amended, the "Purchase Agreement"). Upon notice from us, the Investors are obligated to purchase, and we are obligated to issue, 263,178 shares of our Series A-1 Convertible Preferred Stock ("Series A-1 Preferred Stock") at the Stage II Closing and 263,180 shares of our Series A-1 Preferred Stock at the Stage III Closing, each at a purchase price per share of \$81.42. There are no conditions to funding if we notify the Investors of any such closing.

The foregoing description of the Merger Agreement, the Redemption Agreement, Purchase Agreement and the transactions contemplated thereby do not purport to be complete and are qualified in their entireties by reference to the Merger Agreement and the Redemption Agreement, respectively.

On May 23, 2011, the Company entered into a Loan and Security Agreement with General Electric Capital Corporation ("GECC") as agent and a lender, and Oxford Finance LLC ("Oxford" and together with GECC, the "Lenders") as a lender, pursuant to which the lenders agreed to make available to the Company \$25,000,000 in the aggregate over three term loans. The initial term loan was made on May 23, 2011 in an aggregate principal amount equal to \$6,250,000 (the "Initial Term Loan") and is repayable over a term of 42 months, including a six month interest only period. The Initial Term Loan bears interest at 10%. Pursuant to the Agreement, the Company may request two (2) additional term loans, the first, which must be funded not later than November 23, 2011, in an aggregate principal amount equal to \$6,250,000 (the "Second Term Loan") and the second, which must be funded not later than May 23, 2012, in an aggregate principal amount equal to \$12,500,000 (the "Third Term Loan"). In

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the event the Second Term Loan is not funded on or before November 23, 2011, the Lenders' commitment to make the Second Term Loan shall be terminated and the total commitment shall be reduced by \$6,250,000. In the event the Third Term Loan is not funded on or before May 23, 2012, the Lenders' commitment to make the Third Term Loan shall be terminated and the total commitment shall be further reduced by \$12,500,000. Pursuant to the agreement, the Company agreed to issue to the Lenders (or their respective affiliates or designees) stock purchase warrants (collectively, the "Warrants") to purchase in the aggregate a number of shares of our Series A-1 Preferred Stock equal to the quotient of (a) the product of (i) the amount of the applicable term loan multiplied by (ii) four percent (4%) divided by (b) the exercise price equal to \$81.42 per share. The exercise period of each Warrant to be issued will expire ten (10) years from the date such Warrants are issued. On May 23, 2011, the Company issued a Warrant to each of GECC and Oxford for the purchase of 3,070 shares of Series A-1 Preferred stock.

Business Overview

Our business is focused on acquiring and developing new therapeutics for women's health, especially osteoporosis. Our lead product candidate is BA058 Injection for the prevention of fracture in women suffering from osteoporosis. BA058 Injection is a daily subcutaneous injection of our novel synthetic peptide analog of human parathyroid hormone-related protein ("hPTHrP"). In April 2011, we began dosing of patients in a pivotal, multinational Phase 3 clinical study and expect to report top-line data from the Phase 3 study by late 2013. Based on our clinical and preclinical results to date, we believe that BA058 stimulates the rapid formation of new high quality bone and may restore bone into the normal range in patients suffering from osteoporosis. In addition to BA058 Injection, we are developing BA058 Microneedle Patch, a short wear time, transdermal form of BA058 that is based on a microneedle technology from 3M Drug Delivery Systems ("3M") that is currently being studied in a Phase 1b clinical study which began in December 2010. The BA058 Microneedle Patch may eliminate the need for injections and lead to better treatment compliance for patients. We believe that development costs for the BA058 Microneedle Patch will be lower than the injectable version as it will not be necessary to conduct an additional fracture study for this follow-on product. As a result of the compressed pathway, we expect that marketing approval of the BA058 Microneedle Patch can occur soon after the BA058 Injection.

Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, leading to an increase in fractures. The prevalence of osteoporosis is growing in developed nations with the aging of the populations. The National Osteoporosis Foundation ("NOF") has estimated that (i) 10 million people in the United States, comprising eight million women and two million are men, already have osteoporosis and another 34 million have low bone mass placing them at increased risk for osteoporosis and (ii) osteoporosis was responsible for more than 2 million fractures in the United States in 2005 resulting in an estimated \$19 billion in costs.

In addition to BA058 Injection and BA058 Microneedle Patch, we are currently conducting one other clinical and one preclinical program. Our second clinical stage product candidate is RAD1901, a selective estrogen receptor modulator, or SERM, licensed from Eisai Co ("Eisai") in 2006 which has completed an initial Phase 2 clinical study for the treatment of vasomotor symptoms (hot flashes) in women entering menopause. Our third product candidate, RAD140, is a pre-IND discovery. RAD140 is a selective androgen receptor modular, or SARM, that is an orally-active androgen agonist on muscle and bone and is a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis.

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As of June 23, 2011, we employed eight full-time employees and three part-time employees, five of whom held Ph.D. or M.D. degrees. Five of our employees were engaged in research and development activities and six were engaged in support administration, including business development, and finance. In addition, we intend to use clinical research organizations and third parties to perform our clinical studies and manufacturing.

Corporate Offices

Our executive offices are located at 201 Broadway, 6th Floor, Cambridge, MA 02139. Our telephone number is (617) 551-4700.

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RISK FACTORS

An investment in our Common Stock is very risky. You may lose the entire amount of your investment. Prior to making an investment decision, you should carefully review this entire prospectus and consider the following risk factors:

Risks Relating to our Securities

There is not now and never has been any market for our securities and an active market may never develop. You may therefore be unable to re-sell shares of our securities at times and prices that you believe are appropriate. There is no market active or otherwise for our Common Stock or our Preferred Stock and neither is eligible for listing or quotation on any securities exchange, automated quotation system (e.g., NASDAQ) or any other over-the-counter market, such as the OTC Bulletin Board® (the "OTCBB") or the Pink Sheets® (the "Pink Sheets"). Even if we are successful in obtaining approval to have our Common stock quoted on the OTCBB, it is unlikely that an active market for our Common Stock will develop any time soon thereafter. Accordingly, our Common Stock is highly illiquid. Because of this illiquidity, you will likely experience difficulty in re-selling such shares at times and prices that you may desire.

There is no assurance that our Common Stock will be listed on NASDAQ or any other securities exchange. We plan to seek listing of our Common Stock on NASDAQ or another national securities exchange or listed for quotation on the OTCBB, as soon as practicable. However, there is no assurance we will be able to meet the initial listing standards of either of those or any other stock exchange or automated quotation systems, or that we will be able to maintain a listing of our Common Stock on either of those or any other stock exchange or automated quotation system. We anticipate seeking a listing of our Common stock on the OTCBB, the Pink Sheets or another over-the-counter quotation system, before our Common Stock is listed on the NASDAQ or a national securities exchange. An investor may find it more difficult to dispose of shares or obtain accurate quotations as to the market value of our Common Stock while our Common Stock is listed on the OTCBB. If our Common Stock is listed on the OTCBB, we would be subject to an SEC rule that, if it failed to meet the criteria set forth in such rule, imposes various practice requirements on broker-dealers who sell securities governed by the rule to persons other than established customers and accredited investors. Consequently, such rule may deter broker-dealers from recommending or selling our Common Stock, which may further limit its liquidity. This would also make it more difficult for us to raise additional capital.

Shares of our Capital Stock issued in the Merger are not freely tradable under Securities Laws which will limit stockholders' ability to sell such shares of our Capital Stock. Shares of our Preferred Stock and our Common Stock issued as consideration in the Merger pursuant to the Merger Agreement are deemed "Restricted Securities" under the federal securities laws, and consequently such shares may not be resold without registration under the Securities Act of 1933, as amended (the "Securities Act"), or without an exemption from the Securities Act. Further, Rule 144 covering resales of unregistered securities and promulgated under the Securities Act will not be available for resale of our capital stock unless or until one year following the date on which we file the information required by Form 10 as to the performance of our business. In addition, all shares of our Preferred Stock issued in the Merger will be subject to a lock-up provision set forth in the applicable stockholders' agreement. Each certificate evidencing shares of our capital stock to be issued pursuant to the Merger Agreement will bear a restrictive legend as to the nature of the restrictions on the transfer of such shares.

Because we became an operating company by means of a reverse merger, we may not be able to attract the attention of major brokerage firms. Additional risks may exist as a result of our becoming a public reporting operating company through a "reverse merger." Security analysts of major brokerage firms may not provide coverage of our capital stock or business. Because we became a public reporting operating company through a reverse merger, there is no incentive to brokerage firms to recommend

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the purchase of our Common Stock. No assurance can be given that brokerage firms will want to provide analyst coverage of our capital stock or business in the future.

The resale of shares covered by a registration statement could adversely affect the market price of our Common Stock in the public market, should one develop, which result would in turn negatively affect our ability to raise additional equity capital. The sale, or availability for sale, of our Common Stock in the public market pursuant to a registration statement may adversely affect the prevailing market price of our Common Stock and may impair our ability to raise additional capital by selling equity or equity-linked securities. Once effective, a registration statement will register the resale of a significant number of shares of our Common Stock. The resale of a substantial number of shares of our Common Stock in the public market could adversely affect the market price for our Common Stock and make it more difficult for you to sell shares of our Common Stock at times and prices that you feel are appropriate. Furthermore, we expect that, because there will be a large number of shares registered pursuant to a registration statement, selling stockholders will continue to offer shares covered by such registration statement for a significant period of time, the precise duration of which cannot be predicted. Accordingly, the adverse market and price pressures resulting from an offering pursuant to a registration statement may continue for an extended period of time and continued negative pressure on the market price of our Common Stock could have a material adverse effect on our ability to raise additional equity capital.

We are or will be subject to Sarbanes-Oxley and the reporting requirements of federal securities laws, which can be expensive. As a public reporting company, we will be subject to the Sarbanes-Oxley Act of 2002, as well as the information and reporting requirements of the Securities Exchange Act of 1934, as amended, (the "Exchange Act") and other federal securities laws. The costs of compliance with the Sarbanes-Oxley Act and of preparing and filing annual and quarterly reports, proxy statements and other information with the SEC, and furnishing audited reports to stockholders, will cause our expenses to be higher than they would be if we were privately held.

For so long as shares of our Preferred Stock remain outstanding, if we are sold in a transaction yielding less than the liquidation preference payable in the aggregate to holders of outstanding Preferred Stock, holders of our Common Stock may not receive any proceeds from such transaction and may lose their investment entirely. As of May 20, 2011, we have 555,594 shares of Common Stock; 413,254 shares of Series A-1 Preferred Stock; 983,208 shares of Series A-2 Convertible Preferred Stock (the "Series A-2 Preferred Stock"); 142,227 shares of Series A-3 Convertible Preferred Stock (the "Series A-3 Preferred Stock"); 3,998 shares of Series Convertible A-4 Preferred Stock (the "Series A-4 Preferred Stock"); 6,443 shares of Series A-5 Convertible Preferred Stock (the "Series A-5 Preferred Stock"); and assumed warrants to acquire 818 shares of Series A-1 Preferred Stock. As more fully described herein and in our Certificate of Incorporation, shares of our Preferred Stock outstanding at the time of a sale or liquidation of the Company will have a right to receive proceeds, if any, from any such transactions, before any payments are made to holders of our Common Stock. In the event that there are not enough proceeds to satisfy the entire liquidation preference of our Preferred Stock, holders of our Common Stock will receive nothing in respect of their equity holdings in the Company.

Risks Related to our Business

We currently have no product revenues and will need to raise additional capital to operate our business. To date, we have generated no product revenues. Until, and unless, we receive approval from the U.S. Food and Drug Administration, or FDA, and other regulatory authorities for its product candidates, we cannot sell our drugs and will not have product revenues. Currently, our only product candidates are BA058, RAD1901, and RAD140, and none of these products is approved by the FDA for sale. Therefore, for the foreseeable future, we will have to fund our operations and capital expenditures from cash on hand, licensing fees and grants and potentially, future offerings of our Common Stock or

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Preferred Stock. Currently, we believe that our cash on hand, which includes the \$20.4 million in net proceeds received on May 17, 2011 from the first closing of the Series A-1 Financing, plus the proceeds of the two subsequent closings of the Series A-1 Financing which are available to us with no closing or other conditions, are sufficient to fund our operations into May 2012. However, changes may occur that would consume our available capital before that time, including changes in and progress of our development activities, acquisitions of additional candidates and changes in regulation.

We will need to seek additional sources of financing, which may not be available on favorable terms, if at all. Notwithstanding the expected completion of the subsequent two closings of the Series A-1 Financing, if we do not succeed in timely raising additional funds on acceptable terms, we may be unable to complete planned pre-clinical and clinical trials or obtain approval of any product candidates from the FDA and other regulatory authorities. In addition, we could be forced to discontinue product development, reduce or forego sales and marketing efforts and forego attractive business opportunities. Any additional sources of financing will likely involve the issuance of additional equity securities, which will have a dilutive effect on stockholders.

We are not currently profitable and may never become profitable. We have a history of net losses and expect to incur substantial losses and negative operating cash flow for the foreseeable future, and may never achieve or maintain profitability. For the years ended December 31, 2010 and 2009, we had a net loss of \$14.6 million and \$15.1 million, respectively. As of March 31, 2011 we had an accumulated deficit of approximately \$136.1 from the operations of Target. Even if we succeed in developing and commercializing one or more product candidates, we expect to incur substantial losses for the foreseeable future and may never become profitable. We also expect to continue to incur significant operating and capital expenditures and anticipate that our expenses will increase substantially in the foreseeable future as we:

continue to undertake pre-clinical development and clinical trials for product candidates;

seek regulatory approvals for product candidates;

implement additional internal systems and infrastructure; and

hire additional personnel.

We also expect to experience negative cash flow for the foreseeable future as we fund our operating losses and capital expenditures. As a result, we will need to generate significant revenues in order to achieve and maintain profitability. We may not be able to generate these revenues or achieve profitability in the future. Our failure to achieve or maintain profitability could negatively impact the value of our securities.

We have a limited operating history upon which to base an investment decision. We are a development-stage company and have not demonstrated an ability to perform the functions necessary for the successful commercialization of any product candidates. The successful commercialization of any product candidates will require us to perform a variety of functions, including:

continuing to undertake pre-clinical development and clinical trials;

participating in regulatory approval processes;

formulating and manufacturing products; and

conducting sales and marketing activities.

Our operations have been limited to organizing and staffing our company, acquiring, developing and securing its proprietary technology and undertaking pre-clinical and clinical trials of our product candidates. These operations provide a limited basis for you to assess our ability to commercialize our product candidates and the advisability of investing further in our securities.

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We are heavily dependent on the success of the BA058 Injection, which is still under clinical development. We cannot be certain that BA058 Injection will receive regulatory approval or be successfully commercialized even if we receive regulatory approval. BA058 Injection is our only product candidate in late stage development, and our business currently depends heavily on its successful development, regulatory approval and commercialization. We have no drug products for sale currently and may never be able to develop marketable drug products. The research, testing, manufacturing, labeling, approval, sale, marketing and distribution of drug products are subject to extensive regulation by the FDA and other regulatory authorities in the United States and other countries, which regulations differ from country to country. We are not permitted to market BA058 Injection in the United States until it receives approval of a New Drug Application, or NDA, from the FDA, or in any foreign countries until it receives the requisite approval from such countries. In addition, the approval of BA058 Microneedle Patch as a follow-on product is dependent on an earlier approval of BA058 Injection. We have not submitted an NDA to the FDA or comparable applications to other regulatory authorities. Obtaining approval of an NDA is an extensive, lengthy, expensive and uncertain process, and the FDA may delay, limit or deny approval of BA058 Injection for many reasons, including:

we may not be able to demonstrate that BA058 is safe and effective as a treatment for osteoporosis to the satisfaction of the FDA;

the results of its clinical studies may not meet the level of statistical or clinical significance required by the FDA for marketing approval;

the FDA may disagree with the number, design, size, conduct or implementation of our clinical studies;

the clinical research organization, or CRO, that we retain to conduct clinical studies may take actions outside of our control that materially adversely impact our clinical studies;

the FDA may not find the data from preclinical studies and clinical studies sufficient to demonstrate that BA058's clinical and other benefits outweigh its safety risks;

the FDA may disagree with our interpretation of data from our preclinical studies and clinical studies or may require that we conduct additional studies;

the FDA may not accept data generated at its clinical study sites;

if our NDA is reviewed by an advisory committee, the FDA may have difficulties scheduling an advisory committee meeting in a timely manner or the advisory committee may recommend against approval of our application or may recommend that the FDA require, as a condition of approval, additional preclinical studies or clinical studies, limitations on approved labeling or distribution and use restrictions;

the FDA may require development of a Risk Evaluation and Mitigation Strategy, or REMS, as a condition of approval;

the FDA may identify deficiencies in the manufacturing processes or facilities of our third-party manufacturers; or

the FDA may change its approval policies or adopt new regulations.

Before we submit an NDA to the FDA for BA058 as a treatment for osteoporosis, we must initiate and complete our pivotal Phase 3 study, a thorough QT study, a renal safety study, an osteosarcoma study in rats, and bone quality studies in rats and monkey. We have not commenced all of these required studies and the results of these studies will have an important bearing on the approval of BA058. In addition to fracture and BMD, our pivotal Phase 3 study will measure a number of other potential safety indicators, including anti-BA058 antibodies which will have an

important bearing on the approval of BA058. In addition, the results from the rat carcinogenicity study, which includes

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hPTH(1-34), as a comparator, may show that BA058 dosing results in more osteosarcomas than PTH which may have a material adverse bearing on approval of BA058.

If we do not obtain the necessary U.S. or worldwide regulatory approvals to commercialize any product candidate, we will not be able to sell our product candidates. We cannot assure you that we will receive the approvals necessary to commercialize any of our product candidates (BA058, RAD1901, and RAD140), or any product candidate we acquire or develop in the future. We will need FDA approval to commercialize our product candidates in the U.S. and approvals from the FDA-equivalent regulatory authorities in foreign jurisdictions to commercialize our product candidates in those jurisdictions. In order to obtain FDA approval of any product candidate, we must submit to the FDA an NDA demonstrating that the product candidate is safe for humans and effective for its intended use. This demonstration requires significant research and animal tests, which are referred to as pre-clinical studies, as well as human tests, which are referred to as clinical trials. Satisfaction of the FDA's regulatory requirements typically takes many years, depends upon the type, complexity and novelty of the product candidate and requires substantial resources for research, development and testing. We cannot predict whether our research and clinical approaches will result in drugs that the FDA considers safe for humans and effective for indicated uses. The FDA has substantial discretion in the drug approval process and may require us to conduct additional pre-clinical and clinical testing or to perform post-marketing studies. The approval process may also be delayed by changes in government regulation, future legislation or administrative action or changes in FDA policy that occur prior to or during its regulatory review. Delays in obtaining regulatory approvals may:

delay commercialization of, and our ability to derive product revenues from, our product candidate;

impose costly procedures on us; and

diminish any competitive advantages that we may otherwise enjoy.

Even if we comply with all FDA requests, the FDA may ultimately reject one or more of our NDAs. We may never obtain regulatory clearance for any of our product candidates (BA058, RAD1901, and RAD140). Failure to obtain FDA approval of any of our product candidates will severely undermine our business by leaving us without a saleable product, and therefore without any source of revenues, until another product candidate can be developed. There is no guarantee that we will ever be able to develop or acquire another product candidate.

In foreign jurisdictions, we must receive approval from the appropriate regulatory authorities before we can commercialize any drugs. Foreign regulatory approval processes generally include all of the risks associated with the FDA approval procedures described above. We cannot assure you that we will receive the approvals necessary to commercialize our product candidates for sale outside the United States.

Most of our product candidates are in early stages of clinical trials. Except for BA058, each of our other product candidates (RAD1901 and RAD140), are in early stages of development and requires extensive pre-clinical and clinical testing. We cannot predict with any certainty if or when we might submit an NDA for regulatory approval for any of our product candidates or whether any such NDA will be accepted.

Clinical trials are very expensive, time-consuming and difficult to design and implement. Human clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. A substantial portion of our BA058 development costs are denominated in euro and any adverse movement in the dollar/euro exchange rate will result in increased costs and require us to raise additional capital to complete the development of our products. The clinical trial process is also time consuming. We estimate that clinical trials of BA058 Injection will

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take at least three years to complete. Furthermore, failure can occur at any stage of the trials, and we could encounter problems that cause us to abandon or repeat clinical trials. The commencement and completion of clinical trials may be delayed by several factors, including:

unforeseen safety issues;

determination of dosing issues;

lack of effectiveness during clinical trials;

slower than expected rates of patient recruitment;

inability to monitor patients adequately during or after treatment; and

inability or unwillingness of medical investigators to follow our clinical protocols.

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

The results of our clinical trials may not support its product candidate claims. Even if our clinical trials are completed as planned, we cannot be certain that the results will support our product candidate claims. Success in pre-clinical 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 pre-clinical testing. Our Phase 3 study of BA058 Injection for fracture prevention may not replicate the positive efficacy results for BMD from our Phase 2 study. The clinical trial process may fail to demonstrate that our product candidates are safe for humans and effective for indicated uses. This failure would cause us to abandon a product candidate and may delay development of other product candidates. Any delay in, or termination of, our clinical trials will delay the filing of our NDAs with the FDA and, ultimately, our ability to commercialize our product candidates and generate product revenues. In addition, our clinical trials to date involve a small patient population. Because of the small sample size, the results of these clinical trials may not be indicative of future results.

Physicians and patients may not accept and use our drugs. Even if the FDA approves one or more of our product candidates, physicians and patients may not accept and use it. Acceptance and use of our product will depend upon a number of factors including:

perceptions by members of the health care community, including physicians, about the safety and effectiveness of our drug;

cost-effectiveness of our product relative to competing products;

availability of reimbursement for our product from government or other healthcare payers; and

effectiveness of marketing and distribution efforts by us and its licensees and distributors, if any.

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

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Our drug-development program depends upon third-party researcher, investigators and collaborators who are outside our control. We depend upon independent researchers, investigators and collaborators, such as Nordic Bioscience Clinical Development VII A/S ("Nordic"), to conduct our pre-clinical and clinical trials under agreements with us. These third parties are not our employees and we cannot control the amount or timing of resources that they devote to our programs. These third parties may not assign as great a priority to our programs or pursue them as diligently as we would if we were undertaking such

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programs ourselves. If outside collaborators fail to devote sufficient time and resources to our drug-development programs, or if their performance is substandard, the approval of our FDA applications, if any, and our introduction of new drugs, if any, will be delayed. These collaborators may also have relationships with other commercial entities, some of whom may compete with us. If our collaborators assist competitors at our expense, our competitive position would be harmed.

We will rely exclusively on third parties to formulate and manufacture our product candidate. We have no experience in drug formulation or manufacturing and do not intend to establish our own manufacturing facilities. We lack the resources and expertise to formulate or manufacture our own product candidates. We have entered into agreements with contract manufacturers to manufacture BA058 Injection for use in clinical trial activities. These contract manufacturers are currently our only source for the production and formulation of BA058. We currently do not have sufficient clinical supplies of BA058 to complete the planned Phase 3 study for BA058 Injection but believe that our contract manufacturers will be able to produce sufficient supply of BA058 to complete all of the planned BA058 clinical studies. However, if our contract manufacturers are unable to produce, in a timely manner, adequate clinical supplies to meet the needs of our clinical studies, we would be required to seek new contract manufacturers that may require us to modify our finished product formulation and modify or terminate our clinical studies for BA058. Any modification of our finished product or modification or termination of our Phase 3 clinical study could adversely affect our ability to obtain necessary regulatory approvals and significantly delay or prevent the commercial launch of the product, which would materially harm our business and impair our ability to raise capital.

We depend on a number of single source contract manufacturers to supply key components of BA058. For instance, we depend on Lonza Group Ltd. ("Lonza"), which produces supplies of bulk drug product of BA058 to support the BA058 Injection and BA058 Microneedle Patch clinical studies and potential commercial launch. We also depend on VETTER Pharma Fertigung GmbH & Co ("Vetter") and 3M for the production of finished supplies of BA058 Injection and BA058 Microneedle Patch, respectively. Because of our dependence on Vetter for the "fill and finish" part of the manufacturing process for BA058 Injection, we are subject to the risk that Vetter may not have the capacity from time to time to produce sufficient quantities of BA058 to meet the needs of our clinical studies or be able to scale to commercial production of BA058. Because the manufacturing process for BA058 Microneedle Patch requires the use of 3M's proprietary technology, 3M is our sole source for finished supplies of BA058 Microneedle Patch.

While we are currently in discussions, to date, we have not entered into a long-term agreement with Lonza, Vetter or 3M, who each currently produces BA058 product on a purchase order basis for us. Accordingly, Lonza, Vetter and 3M could terminate our relationship at any time and for any reason. If our relationship with any of these contract manufacturers is terminated, or if they are unable to produce BA058 in required quantities, on a timely basis or at all, our business and financial condition would be materially harmed. If any of our current product candidates or any product candidates we may develop or acquire in the future receive FDA approval, we will rely on one or more third-party contractors to manufacture its drugs. Our anticipated future reliance on a limited number of third-party manufacturers exposes us to the following risks:

We may be unable to identify manufacturers on acceptable terms or at all because the number of potential manufacturers is limited and the FDA must approve any replacement contractor. This approval would require new testing and compliance inspections. In addition, a new manufacturer would have to be educated in, or develop substantially equivalent processes for, production of our products after receipt of FDA approval, if any.

Our third-party manufacturers might be unable to formulate and manufacture our drugs in the volume and of the quality required to meet our clinical needs and commercial needs, if any.

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Our future contract manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store and distribute its products.

Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA, the Drug Enforcement Administration, and corresponding state agencies to ensure strict compliance with good manufacturing practice and other government regulations and corresponding foreign standards. We does not have control over third-party manufacturers' compliance with these regulations and standards.

If any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the intellectual property rights to the innovation.

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

We have no experience selling, marketing or distributing products and no internal capability to do so. We currently have no sales, marketing or distribution capabilities. We do not anticipate having the resources in the foreseeable future to allocate to the sales and marketing of our proposed products. Our future success depends, in part, on our ability to enter into and maintain collaborative relationships for such capabilities, the collaborator's strategic interest in the products under development and such collaborator's ability to successfully market and sell any such products. We intend to pursue collaborative arrangements regarding the sales and marketing of our products, however, there can be no assurance that we will be able to establish or maintain such collaborative arrangements, or if able to do so, that they will have effective sales forces. To the extent that we decide not to, or are unable to, enter into collaborative arrangements with respect to the sales and marketing of our proposed products, significant capital expenditures, management resources and time will be required to establish and develop an in-house marketing and sales force with technical expertise. There can also be no assurance that we will be able to establish or maintain relationships with third party collaborators or develop in-house sales and distribution capabilities. To the extent that we depend on third parties for marketing and distribution, any revenues we receive will depend upon the efforts of such third parties, and there can be no assurance that such efforts will be successful. In addition, there can also be no assurance that we will be able to market and sell our products in the United States or overseas.

If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer. The market for our product candidates is characterized by intense competition and rapid technological advances. If any of our product candidates receives FDA approval, it will compete with a number of existing and future drugs and therapies developed, manufactured and marketed by others. If we fail to develop BA058 Microneedle Patch, our commercial opportunity for BA058 will be limited. Existing or future competing products may provide greater therapeutic convenience or clinical or other benefits for a specific indication than our products, or may offer comparable performance at a lower cost. If our products fail to capture and maintain market share, we may not achieve sufficient product revenues and our business will suffer.

We will compete against fully integrated pharmaceutical companies and smaller companies that are collaborating with larger pharmaceutical companies, academic institutions, government agencies and other public and private research organizations. Many of these competitors have oncology compounds already approved or in development. In addition, many of these competitors, either alone or together

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with their collaborative partners, operate larger research and development programs or have substantially greater financial resources than we does, as well as significantly greater experience in:

developing drugs;

undertaking pre-clinical testing and human clinical trials;

obtaining FDA and other regulatory approvals of drugs;

formulating and manufacturing drugs; and

launching, marketing and selling drugs.

Developments by competitors may render our products or technologies obsolete or non-competitive. The biotechnology and pharmaceutical industries are intensely competitive and subject to rapid and significant technological change. Some of the drugs that we are attempting to develop, such as BA058, RAD1901 and RAD140 will have to compete with existing therapies. In addition, a large number of companies are pursuing the development of pharmaceuticals that target the same diseases and conditions that we is targeting. We faces competition from pharmaceutical and biotechnology companies in the United States and abroad. In addition, companies pursuing different but related fields represent substantial competition. Many of these organizations competing with us have substantially greater capital resources, larger research and development staffs and facilities, longer drug development history in obtaining regulatory approvals and greater manufacturing and marketing capabilities than we do. These organizations also compete with us to attract qualified personnel and parties for acquisitions, joint ventures or other collaborations, and therefore, we may not be able to hire or retain qualified personnel to run all facets of our business.

If our efforts to protect our intellectual property related to BA058, RAD1901 and/or RAD140 fail to adequately protect these assets, we may suffer the loss of the ability to license or successfully commercialize one or more of these candidates. Our commercial success is significantly dependent on intellectual property related to that product portfolio. We are either the licensee or assignee of numerous issued and pending patent applications that cover various aspects of our assets including BA058, RAD1901 and RAD140.

Patents covering BA058 as a composition of matter have been issued in the United States (US patent No. 5,969,095), Europe and several additional countries. Because the BA058 composition of matter case was filed in 1996, it is expected to have a normal expiry of approximately 2016 in the United States (this date does not include the possibility of Hatch-Waxman extension) and additional countries where it has issued. Because of this, it is possible that the data exclusivity provisions as applied to new molecular entities may run longer than the issued composition of matter patents.

We and Ipsen Pharma S.A.S (Ipsen) are also coassignees to US patent No. 7,803,770 that we believe provides exclusivity until 2027 in the United States (absent any extensions) for the method of treating osteoporosis with the intended therapeutic dose. Because patents are both highly technical and legal documents that are frequently subject to intense litigation pressure, there is risk that one or more of the issued patents that are believed to cover BA058 when marketed will be found to be invalid, unenforceable and/or not infringed. In the absence of product exclusivity in the market, there is a high likelihood of multiple competitors selling the same product with a corresponding drop in pricing power and/or sales volume.

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Currently, additional intellectual property covering the BA058 Microneedle Patch is the subject of a US provisional patent application with a priority date of 2011 and any issued claims resulting from this application will expire no earlier than 2031. However, pending patent applications in the United States and elsewhere may not issue since the interpretation of the legal requirements of patentability in view claimed inventions are not always predictable. Additional intellectual property covering the BA058 Microneedle Patch technology exists in the form of proprietary information contained by trade secrets. These can be accidentally disclosed to, independently derived by or misappropriated by competitors, possibly reducing or eliminating the exclusivity advantages of this form of intellectual property, thereby allowing those competitors more rapid entry into the market place with a competitive product thus reducing our marketing advantage of the BA058 Microneedle Patch. In addition, trade secrets may in some instances become publicly available required disclosures in regulatory files. Alternatively, competitors may sometimes reverse engineer a product once it becomes available on the market. Even where a competitor does not use an identical technology for the delivery of BA058, it is possible that they could achieve an equivalent or even superior result using another technology. Such occurrences could lead to either one or more alternative competitor products available on the market and/or one or more generic competitor products on the market with a corresponding decrease in market share and/or price for the BA058 Microneedle Patch.

Patents covering RAD1901 as a composition of matter have been issued in the United States, Australia and is pending in Europe and several additional countries. The RAD1901 composition of matter patent in the United States expires in 2025 (not including any Hatch-Waxman extension). Additional patent applications relating to methods of treating vasomotor symptoms, clinical dosage strengths and combination treatment modalities all covering RAD1901 have been filed. Since patents are both highly technical and legal documents that are frequently subject to intense litigation pressure, there is risk that one or more of the issued patents that are believed to cover RAD1901 when marketed will be found to be invalid, unenforceable and/or not infringed when subject to said litigation. In the absence of product exclusivity in the market, there is a high likelihood of multiple competitors selling the same product with a corresponding drop in pricing power and/or sales volume. Pending patent applications in the United States and elsewhere may not issue since the interpretation of the legal requirements of patentability in view of any claimed invention before that patent office are not always predictable. As a result, we Health could encounter challenges or difficulties in building, maintaining and/or defending its intellectual property rights protecting and defending our intellectual property both in the United States and abroad.

Patent applications covering RAD140 and other SARM compounds that are part of the SARM portfolio have been filed in the United States and elsewhere. Since the RAD140 composition of matter case was effectively filed in 2009, if issued, it is expected to have a normal expiry of approximately 2029 in the United States (this does not include the possibility of USPTO patent term adjustment or Hatch-Waxman extension) and additional countries if/when it issues. Since patents are both highly technical and legal documents that are frequently subject to intense litigation pressure, there is risk that even if one or more RAD140 patents does issue and is asserted that the patent(s) will be found invalid, unenforceable and/or not infringed when subject to said litigation. Finally, the intellectual property laws and practices can vary considerably from one country to another and also can change with time. As a result, we Health could encounter challenges or difficulties in building, maintaining and/or defending its intellectual property rights protecting and defending our intellectual property both in the United States and abroad.

Payments, fees, submissions and various additional requirements must be met in order for pending patent applications to advance in prosecution and issued patents to be maintained. Rigorous compliance with these requirements is essential to procurement and maintenance of patents integral to the product portfolio. Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or applications will come due for payment periodically throughout the lifecycle of patent

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applications and issued patents. In order to help ensure that we comply with any required fee payment, documentary and/or procedural requirements as they might relate to any patents for which we is an assignee or co-assignee, we employ competent legal help and related professionals as needed to comply with those requirements. Our outside patent counsel uses Computer Packages, Inc. for patent annuity payments. Failure to meet a required fee payment, document production of procedural requirement can result in the abandonment of a pending patent application or the lapse of an issued patent. In some instances the defect can be cured through late compliance but there are situations where the failure to meet the required event cannot be cured. Such an occurrence could compromise the intellectual property protection around a our preclinical or clinical candidate and possibly weaken or eliminate our ability to protect our eventual market share for that product.

If we infringe the rights of third parties we could be prevented from selling products, forced to pay damages, and defend against litigation. If our products, methods, processes and other technologies infringe the proprietary rights of other parties, we could incur substantial costs and may have to:

obtain licenses, which may not be available on commercially reasonable terms, if at all;

abandon an infringing drug candidate;

redesign its products or processes to avoid infringement;

stop using the subject matter claimed in the patents held by others;

pay damages; or

defend litigation or administrative proceedings which may be costly whether we wins or loses, and which could result in a substantial diversion of its financial and management resources.

Our ability to generate product revenues will be diminished if our drugs sell for inadequate prices or patients are unable to obtain adequate levels of reimbursement. Our ability to commercialize its drugs, alone or with collaborators, will depend in part on the extent to which reimbursement will be available from:

government and health administration authorities;

private health maintenance organizations and health insurers; and

other healthcare payers.

Significant uncertainty exists as to the reimbursement status of newly approved healthcare products. Healthcare payers, including Medicare, are challenging the prices charged for medical products and services. Government and other healthcare payers increasingly attempt to contain healthcare costs by limiting both coverage and the level of reimbursement for drugs. Even if one of our product candidates is approved by the FDA, insurance coverage may not be available, and reimbursement levels may be inadequate, to cover such drug. If government and other healthcare payers do not provide adequate coverage and reimbursement levels for one of our products, once approved, market acceptance of such product could be reduced.

We may not successfully manage our growth. Our success will depend upon the expansion of our operations and the effective management of its growth, which will place a significant strain on our management and on administrative, operational and financial resources. To manage this growth, we may be required to expand our facilities, augment our operational, financial and management systems and hire and train additional qualified personnel. If we are unable to manage this growth effectively, our business would be harmed.

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

We rely on key executive officers and scientific and medical advisors, and their knowledge of our business and technical expertise would be difficult to replace. We are highly dependent on its principal scientific, regulatory and medical advisors. We do not have "key person" life policies for any of our officers. The loss of the technical knowledge and management and industry expertise of any of our key personnel could result in delays in product development, loss of customers and sales and diversion of management resources, which could adversely affect our operating results.

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

We may incur substantial liabilities and may be required to limit commercialization of our products in response to product liability lawsuits. The testing and marketing of medical products entail an inherent risk of product liability. If we cannot successfully defend our self against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our products. Our inability to obtain sufficient product liability insurance at an acceptable cost to protect against potential product liability claims could prevent or inhibit the commercialization of pharmaceutical products we develop, alone or with collaborators.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

Certain statements contained in this prospectus that are forward-looking in nature are based on the current beliefs of our management as well as assumptions made by and information currently available to management, including statements related to the markets for our products, general trends in our operations or financial results, plans, expectations, estimates and beliefs. In addition, when used in this prospectus, the words "may," "could," "should," "anticipate," "believe," "estimate," "expect," "intend," "plan," "predict" and similar expressions and their variants, as they relate to us or our management, may identify forward-looking statements. These statements reflect our judgment as of the date of this prospectus with respect to future events, the outcome of which is subject to risks, which may have a significant impact on our business, operating results or financial condition. You are cautioned that these forward-looking statements are inherently uncertain. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual results or outcomes may vary materially from those described herein. We undertake no obligation to update forward-looking statements. The risks identified under the heading "Risk Factors" in this prospectus, among others, may impact forward-looking statements contained in this prospectus.

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DESCRIPTION OF THE BUSINESS OF RADIUS HEALTH, INC.

Overview

We are a pharmaceutical company focused on acquiring and developing new therapeutics for osteoporosis and women's health. Our lead candidate is BA058 Injection for the prevention of fracture in women suffering from osteoporosis. BA058 Injection is a daily subcutaneous injection of our novel synthetic peptide analog of hPTHrP. In April 2011, we began dosing of patients in a pivotal, multinational Phase 3 clinical study and expect to report top-line data from the Phase 3 study by late 2013. Based on our clinical and preclinical results to date, we believe that BA058 stimulates the rapid formation of new high quality bone and may restore bone into the normal range in patients suffering from osteoporosis. In addition to BA058 Injection, we are developing BA058 Microneedle Patch, a short wear time, transdermal form of BA058 that is based on a microneedle technology from 3M that is currently being studied in a Phase 1b clinical study which began in December 2010. The BA058 Microneedle Patch may eliminate the need for injections and lead to better treatment compliance for patients. We believe that development costs for the BA058 Microneedle Patch will be lower than the injectable version as it will not be necessary to conduct an additional fracture study for this follow-on product. As a result of the compressed pathway, we expect that marketing approval of the BA058 Microneedle Patch can occur soon after the BA058 Injection.

While there are a number of drugs that help to reduce the rate of bone loss, there are few that are able to build bone. The only approved therapy in the United States that increases bone mineral density ("BMD") into the normal range is Forteo®, a daily subcutaneous injection of recombinant human parathyroid hormone (rhPTH(1-34)). The product is marketed by Eli Lilly and had reported worldwide sales of \$830 million in 2010. We believe that BA058 may offer a number of important advantages over Forteo®, including greater efficacy, a faster benefit, a shorter course of therapy, no need to store BA058 Injection under refrigeration, and an improved safety profile. We believe, if approved, the BA058 Injection and the BA058 Microneedle Patch will offer an attractive bone anabolic treatment option for prescribing physicians and women with compelling advantages in safety, efficacy and delivery over Forteo®.

Based upon guidance we have received from the United States Food and Drug Administration ("FDA") and the European Medicines Agency ("EMA"), we believe that a single pivotal placebo-controlled, comparative Phase 3 study will be sufficient to support registration of BA058 Injection for the treatment of osteoporosis in both the United States and the European Union. Our planned study will enroll a total of 2,400 patients to be randomized equally to receive daily doses of one of the following: 80 micrograms (µg) of BA058, a matching placebo, or the approved dose of 20 µg of Forteo® for 18 months. The study will be powered to show that BA058 is superior to (i) placebo for fracture and (ii) Forteo® for greater BMD improvement at major skeletal sites and for a lower occurrence of hypercalcemia, a condition in which the calcium level in a patient's blood is above normal. We believe that the study will also show that BMD gains for BA058 patients will be earlier than for Forteo® patients.

Market Opportunity for BA058

Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, leading to an increase in fractures. The prevalence of osteoporosis is growing in developed nations with the aging of the populations. NOF has estimated that (i) 10 million people in the United States, comprising eight million women and two million are men, already have osteoporosis and another 34 million have low bone mass placing them at increased risk for osteoporosis and (ii) osteoporosis was responsible for more than 2 million fractures in the United States in 2005 resulting in an estimated \$19 billion in costs.

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In 2011, Cowen and Company ("Cowen"), an investment banking firm, estimated that total worldwide sales of osteoporosis products was \$7.6 billion in 2010. There are two main types of osteoporosis drugs now available in the United States: (i) anti-resorptive agents such as bisphosphonates including Actonel®, Boniva® or Reclast®, and Prolia® (a nuclear factor kB ligand ("RANKL") inhibitor marketed by Amgen), as well as calcitonins and selective estrogen receptor modulators such as Evista® marketed by Lilly; and (ii) anabolic agents, with Forteo® being the only approved drug of this type. Anti-resorptive agents act to prevent further bone loss by inhibiting the breakdown of bone whereas anabolic agents stimulate bone formation to build high quality, new bone. The use of bisphosphonates have been associated with infrequent but serious adverse events such as osteonecrosis of the jaw, atrial fibrillation and anomalous fractures resulting from "frozen bone" that have created increasing concern with physicians and patients. Many physicians are seeking alternatives to current anti-resorptive therapies and we believe this will drive greater demand for bone anabolic agents in the future. We believe that there is a significant opportunity for a new anabolic agent such as BA058 that will increase bone mineral density to a greater degree and at a faster rate than Forteo® with added advantages in convenience and safety.

Our Strategy

We plan to build a pharmaceutical company focused on acquiring and developing new therapeutics for osteoporosis and women's health by:

Completing the single, pivotal Phase 3 clinical trial of BA058 Injection for the treatment of osteoporosis by the end of 2013;

Pursuing the clinical development of BA058 Microneedle Patch as a follow-on product for the treatment of osteoporosis;
Obtaining regulatory approval of BA058 Injection and BA058 Microneedle Patch for the treatment of osteoporosis, initially in the United States and subsequently in the European Union;

Collaborating with third parties for the worldwide commercialization of BA058; and

Collaborating with third parties for the further development and commercialization of RAD1901 and RAD140 on a worldwide basis.

To execute on our strategy, we have built a strong management team and Board of Directors with significant pharmaceutical development, regulatory and commercial experience.

Our Solution

In addition to BA058 Injection and BA058 Microneedle Patch, we are currently conducting one other clinical and one preclinical program. Our second clinical stage product candidate is RAD1901, a selective estrogen receptor modulator, or SERM, licensed from Eisai in 2006 which has completed an initial Phase 2 clinical study for the treatment of vasomotor symptoms (hot flashes) in women entering menopause. Our third product candidate, RAD140, is a pre-IND discovery. RAD140 is a selective androgen receptor modular, or SARM, that is an orally-active androgen agonist on muscle and bone and is a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis.

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The following table summarizes the target indications, dosage forms, and stages of development for our product candidates.

Radius Product Pipeline

BA058

BA058 is a novel synthetic peptide analog of Parathyroid hormone-related peptide (hPTHrP) being developed by us as a bone anabolic treatment for osteoporosis. hPTHrP is a critical cytokine for the regulation of bone formation, able to rebuild bone with low associated risk of inducing hypercalcemia as a side-effect. We believe that BA058 is the most advanced hPTHrP analog in clinical development for the treatment of osteoporosis. We acquired and maintain exclusive worldwide rights (except Japan) to certain patents and other intellectual property related to BA058 through a license agreement with Ipsen dated September 2005. Based on clinical and preclinical data to date, we believe that BA058 has the following important potential advantages over Forteo® rhPTH(1-34), the only other approved anabolic agent for osteoporosis in the US:

Greater efficacy,

Faster benefit,

Shorter treatment duration,

Less hypercalcemia,

No additional safety risks, and

No refrigeration required in use.

BA058 Injection

In August 2009, we announced positive Phase 2 data that showed BA058 Injection produced faster and greater BMD increases at the spine and the hip after 6 months and 12 months of treatment than did Forteo®, which was a comparator in our study. Key findings were that the highest dose of BA058 tested of 80 µg increased mean lumbar spine BMD at 6 and 12 months by 6.7% and 12.9% compared to the increases seen with Forteo® trial arms of 5.5% and 8.6%, respectively. BA058 also produced increases in mean femoral neck BMD at the hip at 6 and 12 months of 3.1% and 4.1% compared to increases for Forteo® of 1.1% and 2.2%, respectively. We believe there to be a strong correlation

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between an increased level of BMD and a reduction in the risk of fracture for patients with osteoporosis. BA058 was generally safe and well tolerated in this study, with adverse events similar

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between the BA058, placebo and Forteo® groups. In addition, the occurrence of hypercalcemia as a side-effect was half that seen with Forteo® for the 80 µg dose of BA058.

In March 2011, we entered an agreement with Nordic to manage the Phase 3 study of BA058 Injection. The study will be conducted in 8 countries at 11 centers operated by the Center for Clinical and Basic Research ("CCBR"). CCBR is a leading global clinical research organization ("CRO") with extensive experience in global osteoporosis registration studies. We expect to report top-line data from the Phase 3 study of BA058 Injection by late 2013.

BA058 Microneedle Patch

In December 2010, we initiated a combined single and seven-day repeat-dose Phase 1 clinical study of the BA058 Microneedle Patch in healthy subjects with top-line data expected to be available by mid-2011. Following this Phase 1 study, we plan to select a dose range to conduct a Phase 2 clinical study comparing multiple daily doses of the BA058 Microneedle Patch to placebo and BA058 Injection using lumbar spine BMD at 6 months as the primary endpoint. We expect to begin the Phase 2 BA058 Microneedle Patch clinical study in mid 2012 with top-line data available in mid 2013. If the BA058 Injection product is already approved by the FDA, we believe that we will only need to conduct a single non-inferiority Phase 3 clinical study comparing the change in lumbar spine BMD at 12 months for patients dosed with the BA058 Microneedle Patch to patients dosed with the BA058 Injection. We believe that development costs for the BA058 Microneedle Patch will be lower than the injectable version as it will not be necessary to conduct an additional fracture study for this follow-on product. As a result of the compressed pathway, we expect that marketing approval of the BA058 Microneedle Patch can occur soon after the BA058 Injection.

Background on Osteoporosis

Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, which can lead to an increase in fractures. The NOF has estimated that 10 million people in the United States, comprising eight million women and two million men, already have osteoporosis and another 34 million have low bone mass placing them at increased risk for osteoporosis and broken bones. All bones become more fragile and susceptible to fracture as the disease progresses. People tend to be unaware that their bones are getting weaker, and a person with osteoporosis can fracture a bone from even a minor fall. Fractures due to osteoporosis are most likely to occur in the hip, spine and wrist. According to the NOF, osteoporosis was responsible for more than 2 million fractures in the United States in 2005. Vertebral (spinal) fractures may result in severe back pain, loss of height or spinal deformities. There were approximately 293,000 Americans age 45 and over admitted to hospitals in 2005 with a fracture of the femoral neck, a common type of hip fracture that is associated with osteoporosis. A women's lifetime risk of a hip fracture is equal to her combined risk of breast, uterine and ovarian cancer. An average of 24 percent of hip fracture patients aged 50 and over dies in the year following their fracture. An additional 20 percent of patients who were ambulatory before their hip fracture require long-term care.

The debilitating effects of osteoporosis have substantial costs. Loss of mobility, admission to nursing homes and dependence on caregivers are all common consequences of osteoporosis. The NOF has estimated that osteoporosis-related fractures were responsible for \$19 billion in costs in 2005.

The prevalence of osteoporosis is growing and, according to the NOF, is significantly under-recognized and under-treated in the population. While the aging of the population is a primary driver of an increase in cases, osteoporosis is also increasing from the use of drugs that induce bone loss, such as chronic use of glucocorticoids for asthma, aromatase inhibitors that are increasingly used for breast cancer and the hormone therapies used for prostate cancer.

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The range of treatment and prevention options for osteoporosis has expanded in recent years from anti-resorptive drugs that act to prevent bone loss by blocking bone resorption and now includes bisphosphonates, selective estrogen receptor modulators, calcitonins, and most recently in 2010, a RANKL inhibitor. Bisphosphonates remain the current standard of care with 2010 world-wide total sales of approximately \$4.2 billion according to Cowen and Company, led by Actonel®, Boniva®, and Fosamax®. Generic versions of Fosamax® (alendronate) became available in the US in 2008 and have now gained share from branded oral bisphosphonates.

The only anabolic (i.e., stimulating bone formation) drug approved in the U.S. for osteoporosis is Forteo®, which was approved by the FDA in December 2002. In 2011, the medical journal, *Osteoporosis International*, published results of a study indicating that patients' preferences for osteoporosis medications are strongly influenced by the mode of administration. In particular, when given the choice of subcutaneously injected Forteo® versus other therapies, patients preferred the alternative drugs over Forteo, which requires once-daily, self-administered injections and must be refrigerated for storage in use. We believe that this research suggests that there is a substantial opportunity to optimize patient outcomes and expand the market by improved treatment compliance with a bone anabolic drug that offers an alternative to daily injection, is room-temperature-stable and requires a shorter treatment duration, such as the BA058 Microneedle Patch. Forteo® had world-wide sales of \$615 million in 2008 and grew to \$830 million in sales for 2010.

Clinical Development Program for BA058

Radius is developing BA058 for the prevention of fractures in postmenopausal women at risk of fracture from severe osteoporosis. Recognizing both the therapeutic potential of BA058 in this indication as well as the drawbacks inherent in self-injection therapies in this population, Radius is also developing the BA058 Microneedle Patch for transdermal administration of the product using a microneedle technology from 3M. We plan to develop and register BA058 Injection as our lead product, with the BA058 Microneedle Patch as a fast-following product that provides greater patient convenience. The ability of the Microneedle Patch to capitalize on the more extensive fracture study data of BA058 Injection will allow the patch product to be accelerated through later phase development without requiring its own fracture study.

Planned and Completed BA058 Studies

Planned Studies
BA058 Injection, Phase 3

The Phase 3 study for BA058 Injection (Study BA058-05-003) was submitted as a draft protocol to IND 73,176 on December 18, 2009, and was the subject of a Type B End of Phase 2 Meeting conducted with the Agency on January 21, 2010. The protocol was subsequently revised and submitted to the FDA on December 17, 2010. The study is planned to enroll 2,400 patients at 11 medical centers in 8 countries in Europe, Latin America and Asia.

Study Objectives

The primary objective of this study is to determine the safety and efficacy of BA058 Injection 80 µg when compared to a matching placebo for prevention of vertebral fracture in otherwise healthy ambulatory postmenopausal women at risk of fracture from severe osteoporosis. Patients, investigators and independent assessors will be blinded as to treatment for that outcome. The secondary objectives of this study are to determine the safety and efficacy of BA058 80 µg when compared to placebo for prevention of non-vertebral fractures and for change in vertical height. Additional key secondary efficacy outcomes include BMD of spine, hip and femoral neck and hypercalcemia when compared to Forteo®.

Table of Contents***Study Population***

The study will enroll otherwise healthy ambulatory postmenopausal (≥ 5 years) women from 50 to 85 years of age (inclusive) who meet the study entry criteria and have provided written informed consent. The women will have a BMD T-score ≤ -2.5 and > -5.0 at the lumbar spine or hip (femoral neck) by dual energy x-ray absorptiometry (DXA) and radiological evidence of two or more mild or one or more moderate lumbar or thoracic vertebral fractures, or history of low trauma forearm, humerus, sacral, pelvic, hip, femoral, or tibial fracture within the past 5 years. Postmenopausal women older than 65 who meet the above fracture criteria but have a T-score ≤ -2.0 and > -5.0 may be enrolled. Women older than 65 who do not meet the fracture criteria may also be enrolled if their T-score is ≤ -3.0 and > -5.0 .

All patients are to be in good general health as determined by medical history, physical examination (including vital signs) and clinical laboratory testing.

Study Design

The planned 2,400 eligible patients will be randomized equally to receive one of the following: BA058 80 μg , a matching placebo, or Forteo® 20 μg for 18 months. Study drug will be blinded to patients and medical personnel until the randomization process is completed. Treatment with BA058 80 μg or placebo will remain blinded to all parties throughout the study. Forteo® comes as a proprietary prefilled drug and device combination that cannot be repackaged and therefore, its identity cannot be blinded to treating physicians and patients once use begins. Study medication will be self-administered daily by SC injection for a maximum of 18 months.

The dosages of study medications and the number of patients per group are shown in below.

Study BA058-05-003 Medication Doses and Number of Patients per Group

Treatment Regimen	Study Medication	Daily Dose (SC)	Duration	Number of Patients
1	BA058	80 μg	18 months	800
2	Placebo		18 months	800
3	Forteo®	20 μg	18 months	800
Total				2,400

All enrolled patients will also receive Calcium and Vitamin D supplementation from the time of enrollment until the end of the Treatment Period; it will be recommended to patients that they also continue these supplements through the one month follow-up period.

Primary Efficacy Outcomes

The primary efficacy endpoint will be the number of BA058-treated patients showing new vertebral fractures at End-of-Treatment when compared to placebo as evaluated by a blinded assessor (radiologist) according to a standardized graded scale of severity of the vertebral deformity (Genant scale).

Secondary Efficacy Endpoints

Secondary efficacy parameters will also include reduction in the incidence of non-vertebral fractures (wrist, hip, rib, etc.) and reduction in moderate and severe vertebral fractures. Other secondary efficacy endpoints will include changes in BMD of the spine, hip, femoral neck and wrist from baseline to end-of-treatment as assessed by DXA.

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Additional secondary endpoints will include change in standing height and changes in serum bone markers across treatment, such as N-terminal propeptide of type I procollagen PINP, osteocalcin and bone-specific alkaline phosphatase. The frequency of hypercalcemia across treatment groups will also be assessed.

Safety Outcomes

Safety evaluations to be performed will include physical examinations, vital signs, 12-lead ECGs, clinical laboratory tests and monitoring and recording of adverse events. Specific safety assessments will include post-dose (4 hours) determination of serum calcium, determination of creatinine clearance, post-dose ECG assessments at selected visits and assessments of postural hypotension (60 minutes post-dose) at selected clinic visits.

Bone biopsy of the iliac crest will be performed in a subset of patients receiving BA058 80 µg and Placebo (up to 100 per group) for assessment of quantitative bone histomorphometry and will be read blinded to treatment by an independent blinded assessor. Renal safety will be further evaluated in a subset of 100 patients in each treatment group by renal CT scan.

Overall study safety will be monitored by an independent Data Safety Monitoring Board.

BA058 Microneedle Patch Phase 2

We plan to conduct a Phase 2 randomized, placebo-controlled, parallel group dose-finding clinical trial in mid-2012. The study will evaluate the safety and efficacy of the daily BA058 Microneedle Patch in women with osteoporosis. We intend to enroll about 250 patients and the study will be similar in design to the Phase 2 study for BA058 Injection. The study will evaluate the effects of 3 doses of the BA058 Microneedle Patch, compared to placebo and BA058 Injection 80 µg on change in BMD and anabolic bone markers over 6 months of treatment. The study will be powered to detect clinically meaningful changes in these efficacy measures (BMD and bone biomarkers).

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Safety will be assessed as changes in incidence of adverse events, changes in laboratory parameters in particular serum calcium, change from baseline in vital signs and physical examination.

Study participation will be preceded by 4 weeks of pretreatment with Calcium and Vitamin D supplements and treatment conclusion will be followed by a one month period of safety observation.

***Completed BA058 Studies
BA058 Injection, Phase 2***

A Phase 2 dose-finding clinical trial (Study BA058-05-002) was conducted as a randomized, placebo-controlled, parallel group dose-finding study in the United States, Argentina, India and the United Kingdom. The purpose of the study was to evaluate the safety and efficacy of daily subcutaneous ("SC") injections of BA058 Injection in women with osteoporosis. The study evaluated the effects of BA058 Injection at multiple doses (0, 20, 40 and 80 µg) on recovery of BMD, a marker of fracture risk, and on biomarkers of anabolic and resorptive activity in bone. The study also included a Forteo® treatment arm for reference. These efficacy measures (BMD and bone biomarkers) were powered for statistical significance. After the initial 24 weeks of treatment, eligible patients were offered a second 24 weeks of their assigned treatment. Safety was assessed throughout the study and reported on at both 6 months and 12 months. BA058 Injection and BA058-placebo were self-administered using a prefilled cartridge in a pen-injector device. Forteo® was self-administered as the marketed product at the approved dose of 20 µg per day by SC injection. Four weeks prior to start of treatment, patients began taking Calcium and Vitamin D supplements that continued throughout the study.

A total of 270 patients (mean age: 65 years) entered the Pretreatment Period, 222 patients were randomized, and 221 patients received study treatment and were analyzed in the intent to-treat ("ITT") population with 55 continuing into the Extension Period. A total of 155 patients were included in the Efficacy Population (Per Protocol) in the initial 24 weeks of treatment.

Initial 24 weeks of treatment

The efficacy results of Study BA058-05-002 confirm the preclinical and early clinical hypothesis that BA058 Injection induces a dose-dependent increase in BMD and in markers of bone remodeling measurable at both the 12-week and 24-week assessments.

At week 12, in the ITT population the mean percent change in total analyzable spine BMD increased with dose, Figure A. The mean gains in BMD (active treatment placebo) for the BA058 Injection 40 µg and 80 µg groups were statistically significant ($p = .0013$ and $p < 0.001$, respectively). The difference was not statistically significant in the BA058 20 µg group and just missed significance in the Forteo® group ($p = 0.055$).

At week 24, the percent change from baseline continued to increase and was statistically significantly proportional to dose ($p < 0.001$), Figure A. Again, the mean gain in total analyzable spine BMD was statistically significant for the BA058 Injection 40 µg ($p < 0.001$) and 80 µg ($p < 0.001$) groups. The BMD gain at week 24 was also significant for the Forteo® group ($p < 0.001$), but not for the placebo group.

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Figure A Mean and Standard Error of the Mean (SEM) Percent Change from Baseline at weeks 12 and 24 in Total Analyzable Spine BMD (ITT Population, N=221)

An even greater proportional response in BMD was elicited in the hip region. By week 24, mean percent changes in total analyzable hip BMD were 0.4%, 1.4%, 2.0% and 2.6% for the placebo, BA058 20 µg, BA058 40 µg, and BA058 80 µg groups, respectively; mean percent change in the Forteo® (0.5%) group was similar to placebo, Figure B. Total hip showed a clear dose response to BA058 and a more than five-fold benefit of BA058 80 µg over Forteo®. A similar relative benefit of BA058 80 µg over Forteo® was seen in all regions of the hip.

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Figure B Mean (SEM) Percent Change from Baseline at weeks 12 and 24 in Total Analyzable Hip BMD (ITT Population, N=221)

BA058 Injection also induced a dose-dependent rise in all markers of bone anabolic activity studied (N-terminal propeptide of type I procollagen PINP, bone specific alkaline phosphatase BSAP, and osteocalcin). The response to Forteo® was generally somewhat greater for all anabolic markers, but similar for bone resorption markers (C-telopeptides of type I collagen crosslinks ("CTX") and N-telopeptides of type I collagen crosslinks "NTX"), consistent with published data on later attenuation of Forteo® BMD benefit.

BA058 Injection was well tolerated at all doses and safety events were consistent with usual medical events in a study population of this age and gender. The safety profile was also similar to that of Forteo® and there were no treatment-related SAEs; however, treatment-emergent adverse events ("TEAEs") were reported by 74% of patients in the first 6 months of treatment, with a similar incidence across all treatment groups. The majority of TEAEs events were mild to moderate in severity and there were no deaths reported. Seven subjects discontinued due to adverse events, 1 in the BA058 20 µg group, 1 in the BA058 40 µg group, 3 in the BA058 80 µg group and 2 in the teriparatide group. Eight patients (4%) experienced at least 1 severe AE and the incidence of such events was similar across treatment groups. Five TSAEs were reported in 3 patients, all unrelated to study drug. Local tolerance at the injection site was similar across treatment groups and fewer than 20% of subjects reported any one symptom, such as redness, at the injection site across the many months of injections.

Serum calcium levels were monitored throughout the study and clinically significant elevated levels (≥ 10.5 mg/dL) were observed in 40% of the Forteo® group while also observed in 4%, 12%, 19% and 18% of the placebo, BA058 Injection 20 µg, 40 µg and 80 µg groups. Most elevations were noted at the 4-hour post-injection time point. Clinically significant hypercalciuria (8%) and hypercalcemia (5%) were also more common in the Forteo® group.

Blood pressure was assessed throughout the study for postural change. Postural changes in blood pressure (predetermined level of change in systolic or diastolic from lying to standing) were reported in

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7 patients, including 0%, 5%, 2%, 2% and 7% of patients in the placebo, BA058 Injection 20 µg, 40 µg, 80 µg and Forteo® groups, respectively. Pre-dose postural changes in blood pressure were similar across treatment groups. There were no clinically meaningful differences in ECG parameters between the placebo and active treatment groups.

Seventeen patients had low titer antibodies against BA058 after 6 months of treatment. Of these, 1 was in the placebo group, 2 were in the BA058 20 µg group, 8 were in the BA058 40 µg group and 6 were in the BA058 80 µg group. There were no associated safety events and no attenuation of treatment efficacy. One antibody-positive patient in the BA058 Injection 40 µg group was found to have evidence of neutralizing activity at 24 weeks without evidence of attenuation of drug efficacy, having a 9.3% gain in total analyzable spine BMD at the week 24 assessment.

Extended 24 weeks of treatment

Patients who completed the initial 24 weeks of treatment and continued to meet eligibility criteria were offered participation in the 24-week extension study in which they would continue their assigned treatment. On completion of the regulatory process to approve the study extension, 69 patients remained eligible and 55 participated, including 13, 10, 7, 11 and 14 patients in the BA058 Injection 20 µg, 40 µg, 80 µg, placebo and Forteo® groups, respectively. Forty-eight patients completed the extended treatment period.

BMD continued to increase during the extended 24 weeks of treatment, with the largest percent increases in total analyzable spine BMD, femoral neck BMD and total analyzable hip BMD observed in the BA058 Injection 80 µg group. By week 48, mean percent changes in spine BMD were 0.7%, 5.1%, 9.8% and 12.9% for the placebo, BA058 20 µg, BA058 40 µg and BA058 80 µg, groups, respectively, while mean percent change from baseline in the Forteo® group was 8.6%. At week 48, the mean femoral neck BMD in the BA058 Injection 80 µg group gained 4.1% compared to the mean of the Forteo® group at 2.2%. The respective results for total analyzable hip BMD were 0.7%, 2.2%, 2.1% and 2.7% for the placebo, BA058 20 µg, BA058 40 µg and BA058 80 µg groups, respectively; compared to 1.3% for the Forteo® group.

No treatment-related SAEs or deaths were reported during this time period. Two patients discontinued treatment, one for bilateral femoral hernias (BA058 Injection 80 µg) and one for moderate syncope (BA058 Injection 40 µg). TEAEs occurred in a similar proportion of patients in each treatment group across the 52-week study period and the majority of events were mild or moderate in severity. The profile of events was not different in the second 6 months of study treatment.

Local tolerance of study drug injections was also similar in the second 6 months of treatment. There were no safety signals observed in the evaluation of clinical laboratory parameters.

In conclusion, this study demonstrated that treatment with BA058 Injection induces a substantial positive change in BMD at both spine and hip in women with osteoporosis and achieves this benefit safely and with substantially less hypercalcemia effect than Forteo®.

BA058 Injection Phase 1 Trials

The First Phase 1 Trial

The first Phase 1 clinical trial was a single-dose study conducted as a randomized, double-blind, placebo-controlled, parallel-group dose escalation study of BA058 Injection in a vial formulation administered as a single SC dose to healthy male and female subjects (mean age: 61 years). The study administered single SC doses of 2, 5, 7.5, 10, 15, 20, 40, 60, 80, and 100 µg BA058 Injection or placebo. Sixteen subjects also received 2.5 µg BA058 Injection by the intravenous ("IV") route and 15 µg SC in separate study periods. In total, 76 subjects received BA058 while 20 received a placebo. No elevation in serum calcium was observed at doses of 80 µg or lower and no clinically relevant effects of BA058

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Injection on ECG or Holter monitor readings were observed. In summary, this study demonstrated that BA058 Injection is 100% bioavailable when administered by the SC route. BA058 Injection did not induce hypercalcemia and was well tolerated at doses up to 80 µg SC.

The Second Phase 1 Trial

The second Phase 1 clinical trial was a multi-dose study of BA058 Injection when administered as a single SC injection for 7 days. Thirty-nine healthy postmenopausal women (mean age: 60 years) received BA058 Injection (5, 20, 40 or 80 µg) or placebo administered SC. BA058 was well tolerated at all doses and there were no serious adverse events ("AEs") and no discontinuations. All AEs were mild or moderate in intensity and did not appear to be dose-related.

BA058 was rapidly absorbed, reaching mean peak plasma concentration within 1 hour, had a rapid clearance and mean half-life values ranged from 1.05 to 2.59 hours. Following BA058 administration, serum PTH decreased and serum 1,25-dihydroxyvitamin D and serum P1NP rose in an apparent dose-dependent manner. Serum calcium showed a slight rise within the normal range following BA058 administration. Three BA058 and 2 placebo patients had isolated calcium values just above the normal range.

The Third Phase 1 Trial

The third Phase 1 clinical trial was a multi-dose study, with the same design as the Second Phase 1 Trial, but using a liquid prefilled multidose cartridge of BA058 and conducted at doses of 80, 100 and 120 µg. BA058 Injection or placebo was administered daily as a SC dose for 7 days to healthy postmenopausal women. Thirty healthy postmenopausal women (mean age: 61 years) were enrolled and 29 completed treatment.

BA058 Injection was well tolerated at doses of up to 100 µg but not at 120 µg which met criteria for termination of dose escalation. One patient in the 120 µg group was intolerant of study drug and was discontinued. All adverse events were mild or moderate in intensity. No study subject developed serum antibodies to BA058 following the 7 days of exposure. BA058 pharmacokinetics was again characterized by rapid absorption, reaching mean peak plasma concentration within approximately 0.5 hours; mean half-life values ranged from 1.13 to 1.65 hours. Similar responses in serum PTH, 1,25-dihydroxy Vitamin D and serum P1NP were observed. These higher doses of BA058 Injection were not associated with occurrence of hypercalcemia. In summary, BA058 Injection was well tolerated at up to 100 µg QD (or daily) for 7 days.

BA058 Microneedle Patch

First Phase 1 Trial

The objectives of the Phase 1 study were to determine the safety, pharmacokinetics and time course of delivery of BA058 Microneedle Patch in healthy postmenopausal women and to compare the PK profiles of BA058 Microneedle Patch delivered transdermally to BA058 Injection administered subcutaneously.

This study was a randomized, double-blind, placebo-controlled, ascending single-dose study and enrolled 38 healthy postmenopausal women (mean age 57.6). Subjects underwent up to 3 single dose exposures to BA058 Microneedle Patch, Placebo Microneedle Patch or BA058 Injection 80 µg over the course of 3 Study Periods.

Pharmacokinetic Results

BA058 Microneedle Patch was characterized by a rapid absorption and elimination. The C_{max} and half-life times were shorter than for BA058 Injection administration.

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Safety Results

The BA058 Microneedle Patch was well tolerated. Safety events were similar between the BA058 Microneedle Patch and BA058 Injection, with the majority of AEs being mild (99%) and, of these, most were reactions at the application site. There was no clinically notable difference in laboratory or cardiac safety parameters across doses of BA058 or routes of administration.

In conclusion, this Phase 1 study of the BA058 Microneedle Patch demonstrated that BA058 can safely be delivered by this route of administration.

Second Phase 1 Trial

A second Phase 1 single and multiple (7-day) application study of the BA058 Microneedle Patch is currently being conducted in the United States using an optimized Microneedle Patch system. The study is designed as a safety, dose-ranging and time-course pharmacokinetic and pharmacodynamic study. This Phase 1 study will investigate optimal dose, wear time and application site for transdermal delivery of BA058 using an optimized microneedle array.

The study will use a matrix design and will first establish optimal wear time before exploring the impact of application site in the range of doses chosen for evaluation. The results obtained using the BA058 Microneedle Patch will be referenced to those of BA058 Injection 80 µg.

Preclinical Pharmacology

In pharmacology studies conducted with BA058, the following has been shown:

BA058 is a potent selective agonist of the human PTHR 1 receptor;

In models of calcium mobilization, BA058 has significantly less calcium mobilizing activity at higher doses than the native hPTHrP(1-34), and less activity than hPTH(1-34);

BA058 Injection stimulates the formation of normal, well-organized bone and restores BMD in ovariectomized, osteopenic rats and primates. BA058 exhibited the majority of its effects through the growth of trabecular bone without compromising cortical bone. Similar studies in rats with BA058 Microneedle Patch show comparable restoration of bone;

BA058 Injection was well tolerated over a wide range of doses in two species, rats and primates, for up to 6 months and 9 months, respectively;

Safety pharmacology studies demonstrated no respiratory, gastroenterologic, hematologic, renal or CNS effects. Tachycardia and hypotension were observed in dogs following both intravenous and subcutaneous administration, however such effects were not observed in other species;

The No Observed Adverse Effect Level ("NOAEL") was 15, 25 and 25 µg/kg/day in rats in the 4-, 13 and 26-week studies, respectively, and 100, 50 and < 10 µg/kg/day in monkeys in the 4-, 13- and 39-week studies, respectively; and

Repeat SC dose studies in both rats and cynomolgus monkeys at doses up to 300 and 450 µg/kg/day, respectively, revealed a relatively fast absorption (T_{max} from 0.083 to 1.0 hr); peak serum concentration ("C_{max}") and Area under the Curve ("AUC"), a measure of drug exposure, increased as the dose increased.

These preclinical studies suggest that compared to hPTH(1-34), BA058 Injection can potentially be used to restore lost BMD with a reduced risk of hypercalcemia and loss of cortical bone.

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Planned and Active Preclinical Safety Studies

A two-year subcutaneous injection carcinogenicity study of BA058 in Fischer 344 albino rats is currently on-going and will assess the carcinogenic potential of BA058. The study is being conducted according to the provisions set forth in Guidance ICH-S1A, ICH-S1B, and ICH-S1C(R2), and the design was accepted by FDA on 15 July 2009. This study will evaluate 3 BA058 dose levels, and the doses were selected based upon findings and tolerance in completed long-term rat toxicology studies and the anticipated tolerance over a 2-year dosing period and, furthermore, represents a good exposure multiple over maximum clinical doses. An active comparator arm is also included; a cohort of rats will be dosed with hPTH (1-34), because it is anticipated that osteosarcoma will be observed over time. The active comparator will allow confirmation of the sensitivity of the model. This study will be conducted in parallel to the Phase 3 clinical program.

Two preclinical bone quality studies will also be conducted, one in ovariectomized ("OVX") rats for up to 12 months of daily BA058 subcutaneous injection, the second study in adult OVX monkeys for up to 18 months. The primary objective of these studies is to demonstrate that long-term treatment with BA058 Injection will not lead to deleterious effects on bone quality by determining BA058's effect on the mass, architecture and strength of bones. These studies will be conducted in parallel to the Phase 3 clinical program and, in both studies, BA058 will be compared to placebo. The 12-month rat study is being performed in OVX skeletally mature Sprague-Dawley rats, an appropriate species for osteoporosis studies as a result of the cancellous bone changes and bone strength changes similarly noted in humans. In this study, a 13-week bone depletion period will occur after ovariectomy/sham surgery and prior to initiation of daily SC injection dosing with vehicle or three different dose levels of BA058.

The 16-month nonhuman primate study is being performed in OVX monkeys, a larger remodeling species whose bone depletion can be induced by estrogen deficiency, as in human menopause. In this study, an approximate 9-month bone depletion period will occur after OVX/sham surgery and prior to initiation of daily SC injection dosing with vehicle or three dose levels of BA058. The specific objectives and measured outcomes of both studies are to investigate the potential safety and efficacy of BA058 on prevention of bone loss. Retention of bone mass, both cortical bone dominant in long bones, and cancellous bone dominant in spinal bone, will be assessed by BMD. Preservation of cortical and cancellous bone on strength will be determined by biomechanical testing. The mechanisms by which BA058 affects bone will be assessed by evaluation of biomarkers of bone turnover and histomorphometric indices of bone turnover. Pharmacokinetics of BA058 and development of antidrug antibodies will also be evaluated.

Manufacturing

BA058 API is manufactured on a contract basis by Lonza, under Good Manufacturing Practices ("GMP") conditions using a solid phase peptide synthesis ("SPPS") assembly process, and purification by high pressure liquid chromatography ("HPLC"). BA058 Injection is supplied as a liquid in a multi-dose cartridge for use in a pen delivery device. The multi-dose cartridges are manufactured by Vetter. The BA058 Microneedle Patch is manufactured by 3M based on their patented microneedle technology to administer drugs through the skin, as an alternative to subcutaneous injection.

Patents

Composition of matter of BA058 is claimed in issued patents in the United States (US 5,969,095), Europe, Australia, Canada, China, Hong Kong, Israel, South Korea, New Zealand, Poland, Russia, Singapore and Taiwan. These cases have a normal patent expiration date of 2016 absent the possibility of patent term extension. The phase 3 clinical dosage of BA058 by the subcutaneous route for use in treating osteoporosis is covered by US 7,803,770 until 2027 in the United States (absent extensions) and

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a related case is currently pending in Europe, China, Australia, Canada, Japan, Brazil, Mexico, Singapore, South Korea, India, Israel, New Zealand, Norway, Russia and Ukraine. A priority patent application covering various aspects of the BA058 for microneedle patch application has been filed in 2011 in the United States (US app. # 61/478,466). Any claims that might issue from app. # 61/478,466 will have a normal expiry date no earlier than 2031.

Competition

The development and commercialization of new products to treat osteoporosis and women's health is highly competitive, and there will be considerable competition from major pharmaceutical, biotechnology and specialty pharmaceutical companies. Many of our competitors have substantially more resources than we do, including both financial and technical. In addition, many of these companies have more experience than us in preclinical and clinical development, manufacturing, regulatory, and global commercialization. Competition for highly qualified employees is intense.

Potential competitors to Radius include, but are not limited to, Amgen, Merck & Co, Novartis and Lilly. Lilly launched Forteo® in December 2002 as the first-to-market anabolic or bone-building agent for the treatment of osteoporosis. Lilly has also announced that it is investigating a transdermal method of delivery of Forteo®.

Clinical Development Program for RAD1901

In June 2006, we exclusively licensed the worldwide rights (except Japan) to RAD1901 from Eisai. RAD1901 is a selective estrogen receptor modulator ("SERM") being developed by us in an oral formulation as a treatment for vasomotor symptoms or hot flashes.

Background on Vasomotor Symptoms

Hot flashes and night sweats are a common symptom during menopause, with up to 85% of women experiencing them during the menopause transition, for a median duration of four years. In 2008, more than 11.5 million women in the United States were in the 45 to 49 age range to enter menopause. In addition, most women receiving systemic therapy for breast cancer suffer hot flashes, often with more severe or prolonged symptoms than women experiencing menopause. These symptoms can disrupt sleep and interfere with quality of life. An estimated two million women undergo menopause every year in the U.S., with a total population of 50 million postmenopausal women.

Historically, hormone replacement therapy ("HRT") with estrogen and/or progesterone was considered the most efficacious approach to relieving menopausal symptoms such as hot flashes. However, data from the Women's Health Initiative ("WHI") identified increased risks for malignancy and cardiovascular disease associated with estrogen therapy. Sales of HRT declined substantially after the release of the initial WHI data but have re-established growth, increasing more than 4% annually since 2004. HRT remains the current standard of care for many women suffering from hot flashes; however, due to concerns about the potential long-term risks and contraindications associated with HRT, we believe that there is a significant need for new therapeutic options to treat vasomotor symptoms. Pfizer's Premarin family remains the market leader for drugs to manage menopausal symptoms with 2010 worldwide sales of \$1 billion.

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Pharmacologic Characteristics of RAD1901

RAD1901 has been shown to bind to the estrogen receptor alpha ("ER α ") and to have both estrogen-like and estrogen antagonist effects in different tissues. RAD1901 has also been shown to have both estrogen-like behavioral effects in animals and to reduce vasomotor signs in an animal model of menopausal hot flashes. In bone, RAD1901 protects against castration-induced bone loss while showing no unwanted stimulation of the endometrium. In cell culture, RAD1901 does not stimulate replication of breast cancer cells and antagonizes the stimulating effects of estrogen. Overall, therefore, RAD1901 exhibits a number of properties that would make it a suitable drug candidate for the management of menopausal symptoms, in particular the treatment of vasomotor symptoms.

Phase 1

A Phase 1 safety, pharmacokinetic and bioavailability study was conducted in 80 healthy postmenopausal women over a range of doses of RAD1901, including placebo. After single dosing with RAD1901 by mouth, the mean half-life ranged between 27.4 and 32.5 h. Bioavailability was determined to be approximately 10%. Food effect was also investigated and the presence of food was determined to increase absorption and delay clearance of RAD1901.

RAD1901 was generally well tolerated. All TEAEs were of mild intensity, with some increase in frequency at the higher doses in the multiple dose group, most commonly gastrointestinal symptoms and headache. There were no serious adverse events observed.

Phase 2

A Phase 2 proof of concept study was conducted in 100 healthy postmenopausal women using 4 doses of RAD1901 (10, 25, 50 and 100 mg) and placebo. The primary study outcome was reduction in the frequency and severity of moderate and severe hot flashes. While a classic dose-response effect was not demonstrated, efficacy was determined to occur at the 10 mg dose level which achieved a statistically significant reduction in the frequency of moderate and severe hot flashes both by linear trend test and by comparison to placebo and in overall (mild-moderate-severe) hot flashes at either the 2-, 3- or 4-week time-points. A similar reduction in composite score (frequency \times severity) was identified at all time-points, with a statistically significant difference from placebo achieved at the 2-, 3- or 4-week time-points. Numerical reductions in mean severity and mean daily severity were observed, but did not reach statistical significance.

No serious adverse events were reported during the course of the study. Overall, 69% of patients had an adverse event, generally mild or moderate in severity, with some evidence of dose dependency, and events were most commonly gastrointestinal symptoms and headache. Three severe adverse events occurred, one in a placebo patient, and were not considered treatment related. Two patients discontinued treatment due to an adverse event, neither in relation to the 10 mg dose.

Manufacturing

RAD1901 API is manufactured for Radius on a contract basis by Irix Pharmaceuticals, Inc. The present GMP manufacture of RAD1901 comprises 9 synthetic steps from a non-GMP starting material. The current process of manufacture requires no chromatographic separations. RAD1901 is a chiral material present as essentially one enantiomer.

Patents

RAD1901 as a composition of matter is covered by US patent 7,612,114 (normal expiry 2026 absent Hatch-Waxman extensions). A corresponding case has also been issued in Australia with related cases pending in Canada, India and Europe. A patent application covering methods of using RAD1901

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for the treatment of hot flush has been filed in the US (published as US 2010/0105733A1), Europe and Canada and any claims issuing will have a normal expiry of 2027. In addition, a provisional dosage form application has been filed in the United States (US app# 61/334,095) and any claims that might issue from applications claiming priority to US app# 61/334,095 will have a normal expiry date no earlier than 2031.

RAD140

Pharmacologic Characteristics of RAD140

RAD140 is a nonsteroidal, selective androgen receptor modulator that resulted from an internal drug discovery program that began in 2005. RAD140 has demonstrated potent anabolic activity on muscle and bone in preclinical studies and has completed 28-day preclinical toxicology studies in both rats and monkeys. Because of its high anabolic efficacy, receptor selectivity, potent oral activity and long duration half life, it is believed that RAD140 has clinical potential in a number of indications where the increase in lean muscle mass and/or bone density is beneficial such as treating the weight loss due to cancer cachexia, muscle frailty and osteoporosis.

Patents

RAD140 as a composition of matter and methods of using RAD140 is covered by pending patent applications in the US (e.g. US app#12/378,812)) and numerous additional countries worldwide. Any patents issued from these filings will have a normal expiry of 2029 absent any extensions.

Collaborations and License Agreements

Nordic Bioscience

We entered into a Letter of Intent with Nordic on September 3, 2010, pursuant to which we funded preparatory work by Nordic in respect of a Phase III clinical study of BA058 Injection. The Letter of Intent was extended on December 15, 2010 and on January 31, 2011. Pursuant to the Letter of Intent and the two extensions, we funded an aggregate \$1,500,000 of preparatory work by Nordic during 2010 and funded and additional \$750,000 of preparatory work by Nordic during 2011. On March 29, 2011, we entered into a Clinical Trial Services Agreement, a Work Statement NB-1 under such Clinical Trial Services Agreement and a related Stock Issuance Agreement with Nordic. Pursuant to Work Statement NB-1, Nordic is managing the Phase III clinical study of BA058 Injection. Pursuant to the Stock Issuance Agreement, Nordic agreed to purchase the equivalent of €371,864 of our Series A-5 Convertible Preferred Stock at a price per share equal to \$8.142. Nordic purchased 64,430 shares of Series A-5 Convertible Preferred Stock on May 17, 2011 for proceeds of \$525,154. The Stock Issuance Agreement provides that Nordic will receive additional shares of equity, which shall initially be in the form of shares of Series A-6 Convertible Preferred Stock, at certain times during the performance of the Phase III clinical study that is the subject of Work Statement NB-1.

3M

In December 2008, we entered into a Feasibility Agreement with 3M whereby 3M assessed the feasibility of developing a BA058 microneedle patch product and supplying the product for preclinical studies in an animal model. Upon completion of the feasibility study, during June 2009, we entered into a Development and Clinical Supplies Agreement with 3M under which 3M is responsible to develop a BA058 microneedle patch product and manufacture clinical and toxicology supplies of such patch product for preclinical, Phase 1 and Phase 2 studies on an exclusive basis.

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Ipsen Pharma

In September 2005, we entered into a License Agreement with Ipsen under which we exclusively licensed certain Ipsen compound technology and related patents covering BA058 to research, develop, manufacture and commercialize certain compounds and related products in all countries, except Japan (subject to certain co-marketing and co-promotion rights retained by Ipsen) France. Ipsen also granted us an exclusive right and license under the Ipsen compound technology and related patents to make and have made compounds or product in Japan. Ipsen also granted us an exclusive right and license under certain Ipsen formulation technology and related patents solely for purposes of enabling us to develop, manufacture and commercialize compounds and products covered by the compound technology license in all countries, except Japan and (subject to certain co-marketing and pro-promotion rights retained by Ipsen) France. Specifically, we licensed US Patent No. 5,969,095, effective filing date (3/29/1996) entitled "Analog of Parathyroid Hormone", US Patent No. 6,544,949, effective filing date (3/29/1996) entitled "Analog of Parathyroid Hormone" and the corresponding foreign patents and continuing patent applications. In addition, we have rights to joint intellectual property including rights to US7803770, effective filing date (10/3/2007) and related patent applications both in the United States and worldwide (excluding Japan) that cover the method of treating osteoporosis using the phase 3 clinical dosage strength and form. As consideration for the rights to BA058 licensed to it by Ipsen, we paid Ipsen an initial license fee of \$250,000. The license agreement requires us to make certain payments upon the achievement of certain development, regulatory and commercial milestones. If we commercialize a product that includes the compound licensed from Ipsen or any analog thereof, we will be obligated to pay to Ipsen royalties based on net sales of the product. In the event that we sublicense the rights licensed from Ipsen to a third party, we are obligated to pay Ipsen a percentage of certain payments received from such sublicensee (in lieu of milestone payments not achieved at the time of such sublicense). We issued 17,326 shares of Series A-1 Preferred Stock to Ipsen on May 17, 2011 in lieu of a cash payment due to Ipsen upon initiation of the first BA058 Phase III clinical study. The license agreement contains other customary clauses and terms as are common in similar agreements in the industry. The license agreement was amended on September 12, 2007 and May 11, 2011.

Eisai

In June 2006, we exclusively licensed the worldwide (except Japan) rights to research, develop, manufacture and commercialize RAD1901 and related products from Eisai. Specifically, we licensed the patent application that subsequently issued as US Patent No. 7612114, effective filing date (12/25/2003) entitled "Selective Estrogen Receptor Modulator", the corresponding foreign patent applications and continuing patent applications. As consideration for the rights to RAD1901, we paid Eisai an initial license fee of \$500,000. In connection with the License Agreement, we have agreed to make certain payments to Eisai, payable upon the achievement of certain clinical and regulatory milestones. Should a product covered by the licensed technology be commercialized, we will be obligated to pay to Eisai royalties based on net sales of the product. We were also granted the right to sublicense with prior written approval from Eisai, but subject to a right of first negotiation held by Eisai if we seek to grant sublicenses limited to particular Asian countries. If we sublicense the licensed technology to a third party, we will be obligated to pay Eisai, in addition to the milestones referenced above, a percentage of certain fees it receives from such sublicensee and royalties based on net sales of the sublicense. The license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

Lonza

In October 2007, we entered into Development and Manufacturing Services Agreement with LONZA. Radius and Lonza have entered into a series of Work Orders pursuant to the Development

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and Manufacturing Services Agreement pursuant to which Lonza has performed pharmaceutical development and manufacturing services for the our BA058 product.

Charles River Laboratories

In March 2004, we entered into a Laboratory Services and Confidentiality Agreement with Charles River Laboratories, Inc. ("CRLI") and amended this agreement on November 7, 2008. Radius has entered into a series of letter agreements with CRLI pursuant to this Laboratory Services and Confidentiality Agreement, covering the performance of certain testing and analytical services concerning our product candidates.

Copies of all of the foregoing material agreements are filed as exhibits hereto.

Government Regulation

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

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

preclinical laboratory tests, animal studies, and formulation studies;

submission to the FDA of an IND for human clinical testing, which must become effective before human clinical trials may begin;

adequate and well-controlled human clinical trials to establish the safety and efficacy of the drug for each indication;

submission to the FDA of an NDA;

satisfactory completion of an FDA inspection of the manufacturing facility or facilities at which the drug is produced to assess compliance with current good manufacturing practices, or "cGMPs"; and

FDA review and approval of the NDA.

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

Clinical trials involve the administration of the investigational drug to human subjects under the supervision of qualified investigators. Clinical trials are conducted under protocols detailing the

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objectives of the study, the parameters to be used in monitoring safety, and the effectiveness criteria to be evaluated. Each protocol must be submitted to the FDA as part of the IND.

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

The FDCA permits FDA and the IND sponsor to agree in writing on the design and size of clinical studies intended to form the primary basis of an effectiveness claim in a New Drug Application ("NDA"). This process is known as Special Protocol Assessment or SPA. These agreements may not be changed after the clinical studies begin, except in limited circumstances.

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

The FDA has various programs, including fast track, priority review, and accelerated approval, that are intended to expedite or simplify the process for reviewing drugs, and/or provide for approval on the basis surrogate endpoints. Generally, drugs that may be eligible for one or more of these programs are those for serious or life-threatening conditions, those with the potential to address unmet medical needs, and those that provide meaningful benefit over existing treatments. A company cannot be sure that any of its drugs will qualify for any of these programs, or that, if a drug does qualify, that the review time will be reduced.

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

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

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

Employees

As of the date of this Report, we employed 8 full-time employees and 3 part-time employees, 5 of whom held Ph.D. or M.D. degrees. Five of our employees were engaged in research and development activities and six were engaged in support administration, including business development, and finance. In addition, we intend to use clinical research organizations and third parties to perform our clinical studies and manufacturing.

Properties

Our executive offices are located at 201 Broadway, 6th Floor, Cambridge, MA 02139. Our telephone number is (617) 551-4700. The office space is approximately 5,700 square feet, and the lease expires on July 30, 2011.

Legal Proceedings

We are not currently involved in any material legal proceedings.

Recent Developments

Pursuant to an Agreement and Plan of Merger dated April 25, 2011 (the "Merger Agreement"), by and among MPM Acquisition Corp. (referred to herein as the "Company", "Radius" or the "Registrant"), RHI Merger Corp., a Delaware corporation and wholly owned subsidiary of the Company ("MergerCo"), and the Target, MergerCo merged with and into Target, with Target remaining as the surviving entity and a wholly-owned operating subsidiary of the Company. The Merger was effective as of May 17, 2011, upon the filing of a certificate of merger with the Delaware Secretary of State.

At the Effective Time, the legal existence of MergerCo ceased and all of the shares of Target Common Stock, and shares of the Target Preferred Stock, that were outstanding immediately prior to the Merger were cancelled and each outstanding share of Target Common Stock outstanding

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immediately prior to the Effective Time was automatically converted into the right to receive one share of our Common Stock and each outstanding share of Target Preferred Stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one-tenth of one share of our Preferred Stock from the Company as consideration for the Merger. More specifically, each share of Series A-1 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-1 Preferred Stock of the Company; each share of Series A-2 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-2 Convertible Preferred Stock of the Company; each share of Series A-3 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-3 Convertible Preferred Stock of the Company; each share of Series A-4 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-4 Convertible Preferred Stock of the Company; each share of Series A-5 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-5 Convertible Preferred Stock of the Company; and each share of Series A-6 Convertible Preferred Stock of Target outstanding immediately prior to the Effective Time was converted into the right to receive 0.1 shares of Series A-6 Convertible Preferred Stock of the Company. The Company will assume all outstanding options and warrants of Target outstanding immediately prior to the Effective Time, which shall become exercisable for shares of Company Common Stock or Company Preferred Stock, as the case may be. Our entry into the Merger Agreement was disclosed on our Current Report on Form 8-K filed with the Securities and Exchange Commission on April 25, 2011, which is hereby incorporated by reference, including the copy of the Merger Agreement filed as Exhibit 10.1 thereto.

Prior the closing of the Merger, pursuant to the terms of a Redemption Agreement dated March 25, 2011 by and among us and our then-current stockholders, we completed the repurchase of 5,000,000 shares of Common Stock (the "Redemption") from our former stockholders in consideration of an aggregate of \$50,000. The 5,000,000 shares constituted all of the issued and outstanding shares of our capital stock, on a fully-diluted basis, immediately prior to the Merger. Our entry into the Redemption Agreement was disclosed on our Current Report on Form 8-K filed with the Securities and Exchange Commission on April 25, 2011, which is hereby incorporated by reference, including the copy of the Redemption Agreement filed as Exhibit 10.2 thereto. Upon completion of the Merger and the Redemption, the former stockholders of Target held 100% of our outstanding shares of capital stock.

Pursuant to the Merger, we assumed all of the Target's obligations under its existing contracts. In particular, we have assumed the obligations of Target under the Original Purchase Agreement with the Investors pursuant to which, among other things, Target agreed to issue and sell to the Investors up to an aggregate of 7,895,535 shares of Target Preferred Stock, to be completed in the Stage I Closing, the Stage II Closing and the Stage III Closing. The Original Purchase Agreement was subsequently amended by Amendment No. 1 thereto to eliminate all closing conditions previously provided for in the Original Purchase Agreement. Upon notice from us, the Investors are obligated to purchase, and we are obligated to issue, 263,178 shares of our Series A-1 Preferred Closing at the Stage II Closing and 263,180 shares of our Series A-1 Preferred Stock at the Stage III Closing, each at a purchase price per share of \$81.42. There are no conditions to funding if we notify the Investors of any such closing. A copy of the Purchase Agreement is attached hereto as Exhibit 10.26, and is incorporated herein by reference.

The foregoing description of the Merger Agreement, the Redemption Agreement, Purchase Agreement and the transactions contemplated thereby do not purport to be complete and are qualified in their entireties by reference to the Merger Agreement and the Redemption Agreement, respectively.

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Following the Merger on May 17, 2011, our Board of Directors approved a transaction pursuant to which Target merged with and into us, leaving us as the surviving corporation (the "Short-Form Merger"). In connection with the Short-Form Merger, we relinquished our corporate name and assumed in its place the name "Radius Health, Inc." The Short-Form and name change became effective on May 17, 2011, upon the filing of a Certificate of Ownership an Merger with the Delaware Secretary of State.

On May 23, 2011, we entered into a Loan and Security Agreement with GEC as agent and a lender, and Oxford, as a lender, pursuant to which the Lenders agreed to make available \$25,000,000 in the aggregate over three term loans. The Initial Term Loan was made on May 23, 2011 in an aggregate principal amount equal to \$6,250,000 and is repayable over a term of 42 months, including a six month interest only period. The Initial Term Loan bears interest at 10%. Pursuant to the Agreement, we may request two (2) additional term loans, the first, which must be funded not later than November 23, 2011, in an aggregate principal amount equal to \$6,250,000 and the second, which must be funded not later than May 23, 2012, in an aggregate principal amount equal to \$12,500,000. In the event the Second Term Loan is not funded on or before November 23, 2011, the Lenders' commitment to make the Second Term Loan shall be terminated and the total commitment shall be reduced by \$6,250,000. In the event the Third Term Loan is not funded on or before May 23, 2012, the Lenders' commitment to make the Third Term Loan shall be terminated and the total commitment shall be further reduced by \$12,500,000. Pursuant to the agreement, we agreed to issue to the Lenders (or their respective affiliates or designees) the Warrants to purchase in the aggregate a number of shares of our Series A-1 Preferred Stock equal to the quotient of (a) the product of (i) the amount of the applicable term loan multiplied by (ii) four percent (4%) divided by (b) the exercise price equal to \$81.42 per share. The exercise period of each Warrant to be issued will expire ten (10) years from the date such Warrants are issued. On May 23, 2011, we issued a Warrant to each of GECC and Oxford for the purchase of 3,070 shares of Series A-1 Preferred stock.

On May 23, 2011, we filed a Current Report on Form 8-K relating to the foregoing and disclosing the Form 10 information required in connection with the reverse merger.

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

You should read the following discussions in conjunction with our consolidated financial statements and related notes included in this prospectus. This discussion includes forward-looking statements that involve risk and uncertainties. As a result of many factors, such as those set forth under "Risk Factors," actual results may differ materially from those anticipated in these forward-looking statements.

Overview

We are a pharmaceutical company focused on acquiring and developing new therapeutics for osteoporosis and women's health. In November 2005, we changed our name from Nuvios, Inc. to Radius Health, Inc. On May 17, 2011, the Merger and the Short-Form Merger were consummated thereby completing the combination of our historical business with the historical business of the Target. Since inception, our efforts and resources have been focused primarily on acquiring and developing BA058 and our other pharmaceutical product candidates, raising capital and recruiting personnel. We have no product sales to date and we will not receive any product sales until we receive approval for BA058 Injection from the FDA, or equivalent foreign regulatory bodies. However, developing pharmaceutical products is a lengthy and very expensive process. Assuming we do not encounter any unforeseen delays during the course of developing BA058, we do not expect to complete development and file for marketing approval in the United States for BA058 Injection and BA058 Microneedle Patch until approximately 2014 and 2016, respectively. Accordingly, our success depends not only on the safety and efficacy of BA058, but also on our ability to finance the development of these products. Our major sources of working capital have been proceeds from various private financings, primarily the private sales of our Preferred Stock.

Financial Overview

Research and Development Expenses

Research and development expenses consist primarily of salaries and related personnel costs, fees paid to consultants and outside service providers for regulatory and quality assurance support, licensing of drug compounds, and other expenses relating to the manufacture, development, testing and enhancement of our product candidates. We expense our research and development cost as they are incurred.

Our lead product candidate is BA058 and it represents the largest portion of our research and development expenses for our product candidates. BA058 is a novel synthetic peptide analog of hPTHrP being developed by as a treatment for osteoporosis in both injection and transdermal routes of administration. BA058 Injection is currently in a Phase 3 study and BA058 Microneedle Patch is in a Phase 1b study. Our other clinical stage program is RAD1901, a selective estrogen receptor modulator, or SERM, which has completed an initial Phase 2 clinical study for the treatment of vasomotor symptoms (hot flashes) in women entering menopause. Our third product candidate, RAD140 is a selective androgen receptor modular, or SARM, is in pre-IND development.

The following table sets forth our research and development expenses related to BA058 injection, BA058 Microneedle Patch, RAD1901 and RAD140 for the years ended December 31, 2009 and 2010 and the three months ended March 31, 2010 and 2011. We began tracking program expenses for BA058 Injection in 2005, and program expenses from inception to March 31, 2011 were approximately \$29.3 million. We began tracking program expenses for BA058 Microneedle Patch in 2007, and program expenses from inception to March 31, 2011 were approximately \$6.0 million. We began tracking program expenses for RAD1901 in 2006, and program expenses from inception to March 31, 2011 were approximately \$15.3 million. We began tracking program expenses for RAD140 in 2008, and program expenses from inception to March 31, 2011 were approximately \$5.1 million. These expenses

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relate primarily to external costs associated with manufacturing, preclinical studies and clinical trial costs.

Costs related to facilities, depreciation, share-based compensation and research and development support services are not directly charged to programs as they benefit multiple research programs that share resources.

	Year ended December 31,		Three Months ended March 31,	
	2009	2010	2010	2011
	(in thousands)			
BA058 Injection	\$ 3,671	\$ 4,664	\$ 676	\$ 2,977
BA058 Microneedle Patch	2,819	1,863	462	577
RAD1901	2,185	1,654	251	
RAD140	2,031	313	157	20

The majority of our external costs are spent on BA058, as costs associated with later stage clinical trials are, in most cases, more significant than those incurred in earlier stages of our pipeline. In April 2011, we began dosing of patients in a pivotal, multinational Phase 3 clinical study pursuant to which we plan to dose approximately 2,400 patients. In addition, in December 2010, we initiated a Phase 1b clinical study for BA058 Microneedle Patch. We expect external costs related to the BA058 program to increase as a result of the Phase III clinical study.

BA058 Injection is our only product candidate in late stage development, and our business currently depends heavily on its successful development, regulatory approval and commercialization. We have no drug products for sale currently and may never be able to develop marketable drug products. We have not submitted an NDA to the FDA or comparable applications to other regulatory authorities. Obtaining approval of an NDA is an extensive, lengthy, expensive and uncertain process, and the FDA may delay, limit or deny approval of BA058 Injection for many reasons, including:

we may not be able to demonstrate that BA058 is safe and effective as a treatment for osteoporosis to the satisfaction of the FDA;

the results of its clinical studies may not meet the level of statistical or clinical significance required by the FDA for marketing approval;

the FDA may disagree with the number, design, size, conduct or implementation of our clinical studies;

the clinical research organization, or CRO, that we retain to conduct clinical studies may take actions outside of our control that materially adversely impact our clinical studies;

the FDA may not find the data from preclinical studies and clinical studies sufficient to demonstrate that BA058's clinical and other benefits outweigh its safety risks;

the FDA may disagree with our interpretation of data from our preclinical studies and clinical studies or may require that we conduct additional studies;

the FDA may not accept data generated at its clinical study sites;

if our NDA is reviewed by an advisory committee, the FDA may have difficulties scheduling an advisory committee meeting in a timely manner or the advisory committee may recommend against approval of our application or may recommend that the FDA require, as a condition of approval, additional preclinical studies or clinical studies, limitations on approved labeling or distribution and use restrictions;

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the FDA may require development of a Risk Evaluation and Mitigation Strategy, or REMS, as a condition of approval;

the FDA may identify deficiencies in the manufacturing processes or facilities of our third-party manufacturers;

the FDA may change its approval policies or adopt new regulations.

As a result of these uncertainties, we are unable to determine the duration and costs to complete current or future clinical stages of our product candidates or when, or to what extent, we will generate revenues from the commercialization and sale of any of our product candidates. Development timelines, probability of success and development costs vary widely. We anticipate that we will make determinations as to which additional programs to pursue and how much funding to direct to each program on an ongoing basis in response to the scientific and clinical data of each product candidate, as well as ongoing assessments of such product candidate's commercial potential and our ability to fund such product development. The lengthy process of securing FDA approvals for new drugs requires the expenditure of substantial resources. Any failure by us to obtain, or any delay in obtaining, regulatory approvals would materially adversely affect our product development efforts and our business overall.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and related expense for executive, finance and other administrative personnel, professional fees, business insurance, rent, general legal activities, and other corporate expenses. We expect our general and administrative expenses to increase as a result of higher costs associated with being a public company.

Our results include non-cash compensation expense as a result of the issuance of stock and stock option grants. Compensation expense for options granted to employees and directors (excluding directors who are also scientific advisory board member or consultants) represent the difference between the fair value of our Common Stock and the exercise price of the options at the date of grant. Compensation for options granted to consultants has been determined based upon the fair value of the equity instruments issued and the unvested portion of such option grants is re-measured at each reporting period. The stock-based compensation expense is included in the respective categories of expense in the statement of operations (research and development and general and administrative expenses). We expect to record additional non-cash compensation expense in the future, which may be significant.

Interest Income and Interest Expense

Interest income reflects interest earned on our cash, cash equivalents and marketable securities.

Interest expense reflects interest due on a Loan and Security Agreement under which we made the final payment in 2009.

Accretion of Preferred Stock

Accretion of preferred stock reflects the periodic accretions of issuance costs, dividends and the investor rights/obligations on Target's Series B and C redeemable convertible preferred stock to adjust the carrying value to its redemption value.

Critical Accounting Policies and Estimates

The preparation of our financial statement requires us to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and expenses during the reported periods. We believe the following accounting policies are "critical" because they require us to make judgments and

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estimates about matters that are uncertain at the time we make the estimate, and different estimates, which would have been reasonable could have been used, which would have resulted in different financial results.

Accrued Clinical Expenses

As part of the process of preparing our financial statements, we are required to estimate our accrued expenses. This process involves reviewing open contracts and purchase orders, communicating with our personnel to identify services that have been performed on our behalf and estimating the level of service performed and the associated cost incurred for the service when we have not yet been invoiced or otherwise notified of actual cost. Payments under some of the contracts we have with parties depend on factors, such as the milestones accomplished, successful enrollment of certain numbers of patients, site initiation and the completion of clinical trial milestones. Examples of estimated accrued clinical expenses include:

fees paid to investigative sites and laboratories in connection with clinical studies;

fees paid to CROs in connection with clinical studies; and

fees paid to contract manufacturers in connection with the production of clinical study materials.

In accruing clinical expenses, we estimate the time period over which services will be performed and the level of effort to be expended in each period. If possible, we obtain information regarding unbilled services directly from these service providers. However, we may be required to estimate the cost of these services based on information available to us. If we underestimate or overestimate the cost associated with a trial or service at a given point in time, adjustments to research and development expenses may be necessary in future periods. Historically, our estimated accrued clinical expenses have approximated actual expense incurred. Subsequent changes in estimates may result in a material change in our accruals.

Research and Development Expenses

We account for research and development costs by expensing such costs to operations as incurred. Research and development costs primarily consist of personnel costs, outsourced research activities, laboratory supplies, and license fees.

Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are deferred and capitalized. The capitalized amounts will be expensed as the related goods are delivered or the services are performed. If expectations change such that we do not expect we will need the goods to be delivered or the services to be rendered, capitalized nonrefundable advance payments would be charged to expense.

Stock-based Compensation

We recognize the compensation cost of employee stock-based awards using the straight-line method over the requisite service period of the award, which is typically the vesting period. During the years ended December 31, 2009 and 2010 and the three months ended March 31, 2010 and 2011, we recorded approximately \$100,000, \$100,000, \$33,000 and \$22,000 of employee stock-based compensation expense, respectively. We estimate the fair value of each option award using the Black-Scholes-Merton option-pricing model.

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In calculating the estimated fair value of our stock options, the Black-Scholes-Merton option-pricing model requires the consideration of the following six variables for purposes of estimating fair value:

The stock option exercise price,

The expected term of the option,

The grant date price of the Company's Common Stock, which is issuable upon exercise of the option,

The expected volatility of the Company's Common Stock,

The expected dividends on the Company's Common Stock, and

The risk-free rate for the expected option term.

The expected term of the stock options granted represents the period of time that options granted are expected to be outstanding. For options granted prior to January 1, 2008, the expected term was calculated using the "simplified" method as prescribed by the SEC's Staff Accounting Bulletin No. 107, Share-Based Payment. For options granted after January 1, 2008, we calculated the expected term using similar assumptions. The expected volatility is a measure of the amount by our stock price is expected to fluctuate during the term of the options granted. We determine the expected volatility based on a review of the historical volatility of similar publicly held companies in the biotechnology field over a period commensurate with the option's expected term. We have never declared or paid any cash dividends on our Common Stock and we do not expect to do so in the foreseeable future. Accordingly, we use an expected dividend yield of zero. The risk-free interest rate is the implied yield available on U.S. Treasury issues with a remaining life consistent with the option's expected term on the date of grant. We apply an estimated forfeiture rate to current period expense to recognize compensation expense only for those awards expected to vest. We estimate forfeitures based upon historical data, adjusted for known trends, and will adjust the estimate of forfeitures if actual forfeitures differ or are expected to differ from such estimates. Subsequent changes in estimated forfeitures are recognized through a cumulative adjustment in the period of change and also will impact the amount of stock-based compensation expense in future periods. The forfeiture rate was estimated to be 2.4% and 2.8% for the years ended December 31, 2009 and 2010, respectively.

The following table presents the grant dates and related exercise prices of stock options granted from January 1, 2009 to May 11, 2011:

Date of Issuance	Nature of Issuance	Number of Shares	Exercise or Purchase Price per Share	Per Share Estimated Fair Value of Common Stock(1)	Per Share Weighted Average Estimated Fair Value of Options(2)
April 9, 2009	Option grant	9,666	\$ 1.20	\$ 1.20	\$ 0.70
December 2, 2009	Option grant	5,000	\$ 1.20	\$ 1.20	\$ 0.68
October 12, 2010	Option grant	256,666	\$ 1.35	\$ 1.35	\$ 0.76
November 30, 2010	Option grant	1,666	\$ 1.35	\$ 1.35	\$ 0.76

(1)

The per share estimated fair value of Common Stock represents the determination by our board of directors of the fair value of our Common Stock as of the date of grant, taking into account various objective and subjective factors and including the results, if applicable, of valuations of our Common Stock as discussed in the pages that follow.

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(2)

Our estimate of the per share weighted average fair value for stock option grants was computed based upon the Black-Scholes option-pricing model with the assumptions through December 31, 2010 as disclosed in our financial statements included elsewhere in the Registration Statement.

We have historically granted stock options at exercise prices not less than the fair value of our Common Stock as determined by our board of directors, with input from management. Our board of directors has historically determined, with input from management, the estimated fair value of our Common Stock on the date of grant based on a number of objective and subjective factors, including:

the prices at which we sold shares of convertible Preferred Stock;

the superior rights and preferences of securities senior to our Common Stock at the time of each grant;

the likelihood of achieving a liquidity event such as an initial public offering or sale of our company;

our historical operating and financial performance and the status of our research and product development efforts; and

achievement of enterprise milestones, including our entering into collaboration and license agreements;

Our board of directors also considered valuations provided by management in determining the fair value of our Common Stock. Such valuations were prepared as of December 3, 2008, December 2, 2009 and October 1, 2010, and valued our Common Stock at \$1.05, \$1.20 and \$1.35 per share, respectively. The valuations have been used to estimate the fair value of our Common Stock as of each option grant date listed and in calculating stock-based compensation expense. Our board of directors has consistently used the most recent valuation provided by management for determining the fair value of our Common Stock unless a specific event occurs that necessitates an interim valuation.

The valuations were based on the guidance from the Valuation of Privately-Held-Company Equity Securities Issued as Compensation that was developed by staff of the American Institute of Certified Public Accountants and a task force comprising representatives from the appraisal, preparer, public accounting, venture capital, and academic communities. The option-pricing method was selected to value Radius' Common Stock based on our stage of development and the degree of uncertainty surrounding the future success of clinical trials for our product candidates. The option-pricing method treats common stock and preferred stock as call options on the enterprise's value, with exercise prices based on the liquidation preference of the preferred stock. Under this method, the common stock has value only if the funds available for distribution to stockholders exceed the value of the liquidation preference at the time of a liquidity event (for example, merger of sale), assuming the enterprise has funds available to make a liquidation preference meaningful and collectible by the stockholders.

In the model, the exercise price is based on a comparison with the enterprise value rather than, as in the case of a "regular" call option, a comparison with a per-share stock price. Thus, common stock is considered to be a call option with a claim on the enterprise at an exercise price equal to the remaining value immediately after the preferred stock is liquidated. We used the Black-Scholes model to price the call option. Under the option-pricing method we had to consider the various terms of the stockholder agreements -including the level of seniority among the securities, dividend policy, conversion ratios, and cash allocations -upon liquidation of the enterprise

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The following discussion summarizes the key factors our management believes are necessary for an understanding of our financial statements.

	Years ended December 31,		Three Months ended March 31,	
	2009	2010	2010	2011
(in thousands)				
Revenue:				
Option Fee	\$ 1,616	\$	\$	\$
Operating expenses:				
Research and development	14,519	11,692	2,491	4,137
General and administrative	2,668	3,630	644	897
Restructuring		217		
Loss from operations	(15,571)	(15,539)	(3,135)	(5,034)
Other income (expense):				
Other Income		883		10
Other (expense)	(7)	(59)		
Interest income, net	489	85	27	14
Net loss	(15,089)	(14,630)	(3,108)	(5,010)
Accretion of preferred stock	(11,405)	(12,143)	(3,046)	(2,876)
Net loss attributable to common stockholders	\$ (26,494)	\$ (26,773)	\$ (6,154)	\$ (7,886)

Three months Ended March 31, 2011 and 2010

Revenue: There was no revenue for the three months ended March 31, 2011 or March 31, 2010.

	Three months Ended March 31,		Change	
	2010	2011	\$	%
(dollars in thousands)				
Operating expenses:				
Research and development	\$ 2,491	\$ 4,137	\$ 1,646	66%
General and administrative	644	897	253	39%
Restructuring				

Research and development expenses: For the three months ended March 31, 2011, research and development expense was \$ 4,137,000 compared to \$2,491,000 for the three months ended March 31, 2010, an increase of \$ 1,646,000 and 66%. For the three months ended March 31, 2011, we incurred professional contract services associated with the development of BA058 Injection of \$ 2,977,000 compared to \$251,000 for the three months ended March 31, 2010. The increase was primarily the result of expenses incurred to initiate our Phase III study. Additionally, we incurred \$113,000 more in contract services associated with the development of BA058 Microneedle Patch. Offsetting these increases, we spent \$131,000 less on RAD140, and \$676,000 less for professional contract services associated with the development of RAD1901 in the three months ended March 31, 2011 compared to the three months ended March 31, 2010. We also had reductions in facilities and outside services expenses of approximately \$378,000 for the three months ended March 31, 2011 compared to the three months ended March 31, 2010. This was attributable to the closure of our lab in September of 2010.

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General and administrative expenses: For the three months ended March 31, 2011, general and administrative expense was \$897,000 compared to \$644,000 for the three months ended March 31, 2010, an increase of \$253,000 and 39%. The increase is primarily the result of increased legal and accounting costs.

Restructuring

There were no restructuring charges for the three months ended March 31, 2011 and March 31, 2010.

Years ended December 31, 2010 and 2009

Revenue: For the year ended December 31, 2010, revenue was \$0 compared to \$1,616,000 for the year ended December 31, 2009. The revenue in 2009 relates solely to an option agreement signed with Novartis in 2007 pursuant to which Novartis obtained an option to license the exclusive worldwide rights (except Japan) to all formulations of BA058. Revenue was recognized ratably over the option period based on criteria specified in the agreement. The period of option exclusivity expired in 2009 without exercise by Novartis.

	Years Ended December 31,		Change	
	2009	2010	\$	%
	(dollars in thousands)			
Operating expenses:				
Research and development	\$ 14,519	\$ 11,692	\$ (2,827)	(24)%
General and administrative	2,668	3,630	962	36%
Restructuring		217	217	(100)%

Research and development expenses: For the year ended December 31, 2010, research and development expense was \$11,692,000 compared to \$14,519,000 for the year ended December 31, 2009, a decrease of \$2,827,000 and 24%. For the year ended December 31, 2010, we incurred professional contract services associated with the development of BA058 Injection of approximately \$ 4,664,000 compared to approximately \$3,671,000 for the year ended December 31, 2009. Offsetting these increases, we incurred \$956,000 less in contract services associated with the development of BA058 Microneedle Patch and we spent \$1,717,000 less on RAD140 in the year ended December 31, 2010 compared to the year ended December 31, 2009. In addition, we spent \$531,000 less for professional contract services associated with the development of RAD1901, and had reductions in stock-based and other compensation of approximately \$125,000, professional fees of approximately \$234,000, and facility and other miscellaneous costs of approximately \$ 256,000, for the year ended December 30, 2010 compared to the year ended December 31, 2009.

General and administrative expenses: For the year ended December 31, 2010, general and administrative expense was \$3,630,000 compared to \$2,668,000 for the year ended December 31, 2009, an increase of approximately \$962,000 and 36%. The increase was attributable to an increase in compensation of approximately \$279,000 and professional fees of approximately \$715,000. The increase in compensation included salaries and employee benefits, as well as stock-based compensation. The increase in professional fees included legal and accounting fees incurred in connection with a proposed merger transaction. These increases were offset by reductions in other individually insignificant accounts.

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Restructuring

We incurred restructuring costs of approximately \$217,000 in the year ended December 31, 2010 related to lease termination costs associated with vacating our laboratory space. No similar costs were incurred in 2009.

Interest Income

Interest income decreased approximately \$404,000 from \$489,000 in the year ended December 31, 2009 to \$85,000 in the year ended December 31, 2010. The decrease is attributable to a lower average cash equivalents and marketable securities balances in 2010.

Other Income

Other income of \$883,000 at December 31, 2010 included approximately \$733,000 of grant proceeds from the Internal Revenue Service pursuant to the qualifying therapeutic discovery grant program and approximately \$149,000 in proceeds from the sale of equipment.

Liquidity and Capital resources

From inception to March 31, 2011, we have incurred an accumulated deficit of \$136.1 million, primarily as a result of expenses incurred through a combination of research and development activities related to our various product candidates and expenses supporting those activities.

We have financed our operations since inception primarily through the private sale of preferred stock as well as the receipt of \$5,000,000 in fees associated with an option agreement. Total cash, cash equivalents and marketable securities as of March 31, 2011 were approximately \$12,074,000.

The following table sets forth the major sources and uses of cash for each of the periods set forth below:

	Years ended December 31,		Change		Three months ended March 31,		Change	
	2009	2010	\$	%	2010	2011	\$	%
	(in thousands)				(in thousands)			
Net cash provided by (used in):								
Operating activities	\$ (18,293)	\$ (12,986)	\$ (5,307)	(29)%	\$ (4,230)	\$ (6,454)	\$ 2,224	53%
Investing activities	17,623	15,669	(1,954)	(11)%	2,852	6,097	3,245	114%
Financing activities	(8)	2	10	(125)%				0%
Net increase (decrease) in cash and cash equivalents	\$ (678)	\$ 2,685	\$ 3,363	(496)%	\$ (1,378)	\$ (357)	\$ 1,021	(74)%

Cash Flows From Operating Activities

The increase of \$2,224,000 in net cash used in operations for the three months ended March 31, 2011 compared to the three months ended March 31, 2010 was primarily associated with an increase in net loss and net changes in working capital related to expenses incurred to initiate the Phase 3 clinical study for BA058 Injection.

The decrease of \$5,307,000 in net cash used in operations for the year ended December 31, 2010 compared to the year ended December 31, 2009 was primarily associated with a \$459,000 decrease in net loss and net changes in working capital, including a \$2,413,000 million increase in accrued expenses related to preparations to initiate the Phase III clinical study for BA058 Injection, a \$1,027,000

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decrease in accounts payable and a decrease of \$1,616,000 million in deferred revenue due to the expiration of the Novartis option agreement in 2009.

Cash Flows From Investing Activities

Net cash provided by investing activities increased by \$3,245,000 for the three months ended March 31, 2011 compared to the three months ended March 31, 2010. The increase was primarily a result of a \$3,234,000 increase in net cash proceeds from the sales and maturities of investments, net of purchases, in the three months ended March 31, 2011; offset by \$11,000 used for the purchase of equipment.

Net cash provided by investing activities decreased by \$1,954,000 for the year ended December 31, 2010 compared to the year ended December 31, 2009. The decrease was primarily a result of a \$2,120,000 decrease in net cash proceeds from the sales and maturities of investments, net of purchases, in the year ended December 31, 2010; offset by \$149,000 in proceeds from the sale of equipment.

Cash Flows From Financing Activities

There were no significant cash flows from financing activities for the three months ended March 31, 2011 and March 31, 2010 or the years ended December 31, 2010 and December 31, 2009.

Our continued operations will depend on whether we are able to raise additional funds through various potential sources, such as equity and debt financing. Through March 31, 2011, a significant portion of our financing has been through private placements of Preferred Stock. We will seek to continue to fund operations from cash on hand and through additional equity and/or debt financing. We can give no assurances that any additional capital that we are able to obtain will be sufficient to meet our needs. Based on our existing resources, which include the \$21,428,000 of proceeds from the first closing of the Series A-1 convertible preferred stock financing on May 17, 2011 and an irrevocable legally binding commitment effective May 11, 2011, for additional proceeds of \$42,857,000 from the issuance of Series A-1 convertible preferred stock in two additional closings which are expected to take place in 2011, we believe that we have sufficient capital to fund our operations into May 2012, but will need additional financing thereafter until we can achieve profitability, if ever.

Financings

Through March 31, 2011, we received aggregate net cash proceeds of \$105.9 million from the sale of shares of our preferred stock as follows:

Issue	Year	No. Shares	Net Proceeds (in thousands)
Series B redeemable convertible preferred stock	2003, 2004, 2005	1,599,997	23,775
Series C redeemable convertible preferred stock	2006, 2007, 2008	10,146,629	82,096
		11,746,626	\$ 105,871

On May 11, 2011 accredited investors in a Series A-1 convertible preferred stock financing ("Series A-1 Private Placement") entered into an irrevocable legally binding commitment to purchase \$64.3 million of Series A-1 Preferred Stock in three closings. The first closing of the Series A-1 Private Placement occurred on May 17, 2011 and we received gross proceeds of approximately \$21,428,000 through the sale of 2,631,845 shares of Series A-1 Preferred Stock. Those shares were exchanged in the Merger for an aggregate of 263,177 shares of Series A-1 Preferred Stock. Shares of Series A-1

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Preferred Stock are convertible, in whole or in part, at the option of the holder at any time into shares of our Common Stock initially on a one-for-ten basis at an initial conversion price of \$8.142 per share.

The Series A-1 Private Placement provides for additional Stage II and Stage III closings upon notice by us to the same accredited investors for an additional 526,358 shares of Series A-1 Preferred Stock in consideration of gross proceeds of an additional \$42,857,000. We expect to affect the Stage II and Stage III closings in 2011. Concurrently with the Stage I Closing of the Series A-1 Private Placement, we issued 64,430 shares of Series A-1 Preferred Stock to Nordic for gross proceeds of approximately \$524,000.

On May 23, 2011, we entered into a Loan and Security Agreement with GEC as agent and a lender, and Oxford, as a lender, pursuant to which the Lenders agreed to make available \$25,000,000 in the aggregate over three term loans. The Initial Term Loan was made on May 23, 2011 in an aggregate principal amount equal to \$6,250,000 and is repayable over a term of 42 months, including a six month interest only period. The Initial Term Loan bears interest at 10%. Pursuant to the Agreement, we may request two (2) additional term loans, the first, which must be funded not later than November 23, 2011, in an aggregate principal amount equal to \$6,250,000 and the second, which must be funded not later than May 23, 2012, in an aggregate principal amount equal to \$12,500,000. In the event the Second Term Loan is not funded on or before November 23, 2011, the Lenders' commitment to make the Second Term Loan shall be terminated and the total commitment shall be reduced by \$6,250,000. In the event the Third Term Loan is not funded on or before May 23, 2012, the Lenders' commitment to make the Third Term Loan shall be terminated and the total commitment shall be further reduced by \$12,500,000. Pursuant to the agreement, we agreed to issue to the Lenders (or their respective affiliates or designees) the Warrants to purchase in the aggregate a number of shares of our Series A-1 Preferred Stock equal to the quotient of (a) the product of (i) the amount of the applicable term loan multiplied by (ii) four percent (4%) divided by (b) the exercise price equal to \$81.42 per share. The exercise period of each Warrant to be issued will expire ten (10) years from the date such Warrants are issued. On May 23, 2011, we issued a Warrant to each of GECC and Oxford for the purchase of 3,070 shares of Series A-1 Preferred stock.

License Agreement Obligations

BA058

In September, 2005, we exclusively licensed the worldwide rights (except Japan) to BA058 and analogs from Ipsen. Of particular relevance, our licensed US Patent No. 5,969,095, effective filing date (3/29/1996) entitled "Analogues of Parathyroid Hormone" that claims BA058 and US Patent No. 6,544,949, effective filing date (3/29/1996) entitled "Analogues of Parathyroid Hormone" that claims methods of treating osteoporosis using BA058 and pharmaceutical compositions comprising BA058, and the corresponding foreign patents and continuing patent applications. In addition, we have rights to joint intellectual property related to BA058 including rights to the jointly derived intellectual property contained in US7803770, effective filing date (10/3/2007) and related patent applications both in the United States and worldwide (excluding Japan) that cover the method of treating osteoporosis using the phase 3 clinical dosage strength and form. In consideration for the rights to BA058 and in recognition of certain milestones having been met to date, we have paid to Ipsen an aggregate amount of \$1,000,000 US dollars. The license agreement further requires us to make payments upon the achievement of certain future clinical and regulatory milestones. Should BA058 become commercialized, we will be obligated to pay to Ipsen an annual royalty based on net sales of the product. In the event that we sublicense BA058 to a third party, we are obligated to pay royalties to Ipsen based on a fixed rate of fees or royalties received from the sublicense. Effective May, 11, 2011, Ipsen agreed to accept shares of Series A-1 Preferred Stock in lieu of a cash milestone payment. We issued 17,326 shares of Series A-1 Preferred Stock to Ipsen on May 17, 2011 to settle the liability. The

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license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

RAD1901

In June, 2006, we exclusively licensed the worldwide rights (except Japan) to RAD1901 from Eisai. In consideration for the rights to BA058 and in recognition of certain milestones having been met to date, we have paid to Eisai an aggregate amount of \$1,500,000 US dollars. The license agreement further requires us to make payments upon the achievement of certain future clinical and regulatory milestones. Should RAD1901 become commercialized, we will be obligated to pay to Eisai an annual royalty based on net sales of the product. In the event that we sublicense RAD1901 to a third party, we are obligated to pay royalties to Eisai based on a fixed rate of fees or royalties received from the sublicense. The license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

Net Operating Loss Carryforwards

As of December 31, 2010, we had federal and state net operating loss carryforwards of approximately \$85,000,000 and \$75,000,000, respectively. If not utilized, the net operating loss carryforwards will begin expiring in 2024 and 2016 for federal and state purposes, respectively.

Under Section 382 of the Code, substantial changes in our ownership may limit the amount of net operating loss carryforwards that could be utilized annually in the future to offset taxable income. Specifically, this limitation may arise in the event of a cumulative change in ownership of our company of more than 50% within a three-year period. Any such annual limitation may significantly reduce the utilization of the net operating loss carryforwards before they expire. The closing of this offering, together with private placements and other transactions that have occurred since our inception, may trigger an ownership change pursuant to Section 382, which could limit the amount of net operating loss carryforwards that could be utilized annually in the future to offset taxable income, if any. Any such limitation, whether as the result of this offering, prior private placements, sales of Common Stock by our existing stockholders or additional sales of Common Stock by us after this offering, could have a material adverse effect on our results of operations in future years. We have not completed a study to assess whether an ownership change has occurred, or whether there have been multiple ownership changes since our inception, due to the significant costs and complexities associated with such study. In each period since our inception, we have recorded a valuation allowance for the full amount of our deferred tax asset, as the realization of the deferred tax asset is uncertain. As a result, we have not recorded any federal or state income tax benefit in our statement of operations.

Internal Control Over Financial Reporting

We are not currently required to comply with Section 404 of the Sarbanes-Oxley Act and are therefore not required to make an assessment of the effectiveness of our internal control over financial reporting. Further, our independent registered public accounting firm has not been engaged to express, nor have they expressed, an opinion on the effectiveness of our internal control over financial reporting. In connection with our becoming a public company, we intend to hire additional accounting personnel with public company and SEC reporting experience and to focus on implementing appropriate internal controls and other procedures.

Pursuant to Section 404 of the Sarbanes-Oxley Act, management will be required to deliver a report that assesses the effectiveness of our internal control over financial reporting. Under current SEC rules, our independent registered public accounting firm will also be required to deliver an attestation report on the effectiveness of our internal control over financial reporting beginning with

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the year ending December 31, 2011, unless we qualify for an exemption as a non-accelerated filer under the Dodd-Frank Wall Street Reform and Consumer Protection Act, enacted on July 21, 2010.

Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Quantitative and Qualitative Disclosures about Market Risk

Our primary exposure to market risk is foreign currency exposure. A substantial portion of our BA058 development costs are denominated in euro and an immediate 10 percent adverse change in the dollar/euro exchange rate will result in increased costs and would have a material adverse impact on our financial statements and require us to raise additional capital to complete the development of our products. We do not hedge our foreign currency exchange rate risk.

We are also exposed to market risk related to changes in interest rates. As of December 31, 2010 and December 31, 2009, we had cash, cash equivalents and short-term investments of \$18,551,000 and \$31,722,000 million, respectively, consisting of money market funds, U.S. Treasuries, Certificates of Deposit and cash equivalents. This exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates, particularly because our investments are in short-term marketable securities. Our short-term investments are subject to interest rate risk and will fall in value if market interest rates increase. Due to the short-term duration of our investment portfolio and the low risk profile of our investments, an immediate 10 percent change in interest rates would not have a material effect on the fair market value of our portfolio. We have the ability to hold our short-investments until maturity, and therefore we would not expect our operations results or cash flows to be affected by any significant degree by the effect of a change in market interest rates on our investments. We carry our investments based on publicly available information. We do not currently have any hard to value investment securities or securities for which a market is not readily available or active.

We are not subject to significant credit risk as this risk does not have the potential to materially impact the value of assets and liabilities.

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Each executive officer and each member of our board of directors shall serve until his successor is elected and qualified.

Name	Age	Position
C. Richard Lyttle, Ph.D.	66	Director, President and Chief Executive Officer
Nick Harvey	50	Senior Vice President, Chief Financial Officer, Treasurer and Secretary
Louis O'Dea, MB	60	Senior Vice President, Chief Medical Officer
Gary Hattersley, Ph.D.	45	Vice President, Biology
Alan Auerbach	41	Director
Jonathan Fleming	53	Director
Ansbert K. Gadick, M.D.	53	Director
Kurt Graves	43	Director
Martin Muenchbach, Ph.D.	40	Director
Elizabeth Stoner, M.D.	61	Director

C. Richard Lyttle, Ph.D., Director, President and Chief Executive Officer, 66, has served as a member of our board of directors and as our President and Chief Executive Officer since November 2010. Prior to the Merger, Dr. Lyttle had been President and Chief Executive Officer and a Director of Target since August 2004. Dr. Lyttle is the former Vice President of Discovery for Women's Health and Bone from 1998 to 2004, and the Women's Health Research Institute at Wyeth from 1993 to 2004. Prior to joining Wyeth, Dr. Lyttle was Research Professor of Obstetrics, Gynecology, and Pharmacology at the University of Pennsylvania from 1979 to 1993. He received a PhD in Biochemistry from Queen's University, Kingston, Ontario in 1972, followed by postdoctoral research at the Population Council at the Rockefeller University from 1973 to 1974, the Department of Biology at Queen's University from 1974 to 1976, and at the University of Chicago from 1976 to 1979. Dr. Lyttle was selected as a director because of his business and professional experience.

Nick Harvey, Senior Vice President, Chief Financial Officer, Treasurer and Secretary, 50, has served as our Chief Financial Officer, Treasurer and Secretary since November 2010, and served as a member of our board of directors from November 2010 until the consummation of the Merger in May 2011. Prior to the Merger, Mr. Harvey had served as Chief Financial Officer and Senior Vice President of Target since December 2006. Prior to joining Target, Mr. Harvey served as Managing Director of Shiprock Capital, LLC, a venture capital firm, from 2003 to 2006 and remains a member of the Board of that firm. Prior to Shiprock Capital, Mr. Harvey served as Chief Financial Officer of a number of venture-backed companies over a 10-year period, including LifetecNet from 2001 to 2002, Transfusion Technologies from 1999 to 2000, and Transcend Therapeutics from 1993 to 1999. Mr. Harvey received a Bachelor of Economics degree in 1980 and a Bachelor of Laws degree with first-class honors in 1983 from the Australian National University, and an MBA from the Harvard Business School in 1991. Mr. Harvey was selected as a director because of his business and professional experience.

Louis O'Dea, M.B., Senior Vice President, Chief Medical Officer, 60, has been Senior Vice President and Chief Medical Officer since the closing of the Merger in May 2011 and, prior to the Merger served in such capacity at Target since March 2006. Prior to joining Target, Dr O'Dea was Vice President and Head of Clinical Development for Reproductive Endocrinology and Metabolism at Serono, Inc. from 2004 to 2006. Joining Serono as a Medical Director in 1993 (1993-95), he was appointed Executive Medical Director in 1995 (1995-1998) and Vice President for Clinical Development in 1999 (1999-2006). From 2000 to 2002, Dr O'Dea served as Regional Medical Officer in Japan. Dr. O'Dea received his Medical Degree from University College Dublin, Ireland, in 1976. He received his postgraduate medical education in Internal Medicine and Endocrinology at McGill University, Canada from 1976-84 and is board certified in both specialties in Canada and USA. From

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1984-88, Dr O'Dea undertook a Research and Clinical Fellowship in Reproductive Endocrinology at Massachusetts General Hospital, Harvard University and from 1988-95 was a member of the Medical Faculty of McGill University, Montreal, Canada, in the Departments of Medicine and Obstetrics-Gynecology. Dr O'Dea has also served on the Board of Directors of the Eliassen Group from 2007 to 2010 and is an advisor to Lineage Capital.

Gary Hattersley, Ph.D., Vice President, Biology, 44, has served as our Vice President of Biology since the closing of the Merger in May 2011 and had served in the same capacity at Target since April 2008. He also served as Target's Director, Disease Biology & Pharmacology from 2003 to 2008. Prior to joining Target, Dr. Hattersley was a Senior Scientist at Millennium Pharmaceuticals from 2000 to 2003 with responsibility for the discovery and development of novel small-molecule agents for the treatment of osteoporosis and other metabolic bone diseases. Dr. Hattersley also held positions at Genetics Institute/Wyeth Research from 1992 to 2000 investigating the application of the bone morphogenetic proteins in bone and connective tissue repair and regeneration. Dr. Hattersley received a PhD in Experimental Pathology from St. George's Hospital Medical School in London in 1991.

Alan H. Auerbach, 41, has been a director since the closing of the Merger in May 2011 and, prior to the Merger, was a director of Target since October 2010. Mr. Auerbach is currently the Founder, Chief Executive Officer and President of Puma Biotechnology, Inc., a company dedicated to in-licensing and developing drugs for the treatment of cancer. Mr. Auerbach founded Cougar Biotechnology in May 2003 and served as the company's Chief Executive Officer, President and a Member of its Board of Directors until July 2009 when Cougar was acquired by Johnson & Johnson for approximately \$1 billion. From July 2009 until January 2010, Mr. Auerbach served as the Co-Chairman of the Integration Steering Committee at Cougar (as part of Johnson & Johnson) that provided leadership and oversight for the development and global commercialization of Cougar's lead product candidate, abiraterone acetate, for the treatment of advanced prostate cancer. Prior to founding Cougar, from June 1998 to April 2003 Mr. Auerbach was a Vice President, Senior Research Analyst at Wells Fargo Securities, where he was responsible for research coverage of small-and middle- capitalization biotechnology companies, with a focus on companies in the field of oncology. He had primary responsibility for technical, scientific and clinical due diligence, as well as selection of biotechnology companies followed by the company. During 2002, Mr. Auerbach ranked second in the NASDAQ/Starmine survey of analyst performance for stock picking in biotechnology. From August 1997 to May 1998, Mr. Auerbach was a Vice President, Research Analyst at the Seidler Companies, Inc., where he was responsible for research coverage of small capitalization biotechnology companies. Prior to his work as a biotechnology analyst, Mr. Auerbach worked for Diagnostic Products Corporation, where he designed and implemented clinical trials in the field of oncology. Mr. Auerbach received a B.S. in Biomedical Engineering from Boston University and an M.S. in Biomedical Engineering from the University of Southern California.

Jonathan Fleming, 53, has been a director since the closing of the Merger in May 2011 and, prior to the Merger, was as director of Target since March 2009. Mr. Fleming is the Managing General Partner of Oxford Bioscience Partners ("OBP"), an international venture capital firm specializing in life science technology-based investments, which he joined in 1996, with offices in Boston and Connecticut. Mr. Fleming has been in the investment business for more than 20 years and has launched and financed growth companies in the United States, Europe, and Israel. Prior to joining OBP in 1996, Mr. Fleming was a Founding General Partner of MVP Ventures in Boston from 1988 to 1996. He began his investment career with TVM Techno Venture Management in Munich, Germany in 1985. Mr. Fleming is also a co-founder of Medica Venture Partners, a venture capital investment firm specializing in early-stage healthcare and biotechnology companies in Israel. Mr. Fleming has been on the Board of Asterand plc (LSE: ATD) since September 2008 and is a director of several private companies including Leerink Swann, a Boston-based investment bank specializing in healthcare companies since June 1998, Laboratory Partners, a clinical diagnostic testing company, since June 2006,

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and Railrunner, a rail products and services company, since June 1999. Mr. Fleming is a Trustee of the Museum of Science in Boston, a Member of the Board of the New England Healthcare Institute, and a Senior Lecturer at the MIT Sloan School of Business. He holds an MPA from Princeton University and a BA from the University of California, Berkeley. Mr. Fleming brings to our board of directors strategic insight and experience with his long career in venture capital and investing in life sciences technology-based firms for over 20 years.

Ansbert K. Gadicke, M.D., 53, has been a director since the closing of the Merger and, prior to the Merger, served a director of Target since November 2003. Dr. Gadicke is a Co-Founder and Managing Director of MPM Capital. He led MPM's effort to build its Advisory and Investment Banking business from 1992 to 1996 and started its Asset Management business in 1996. Prior to founding MPM, Dr. Gadicke was employed by The Boston Consulting Group from 1989 to 1992. Dr. Gadicke received an M.D. from J.W. Goethe University in Frankfurt in 1983. He subsequently held research positions in biochemistry and molecular biology at the German Cancer Research Center from 1984 to 1986, Harvard University from 1987 to 1988, and the Whitehead Institute at MIT from 1988 to 1989. He has published in leading scientific publications including Nature and Cell. Dr. Gadicke is also a director of Cerimon Pharmaceuticals; Dragonfly Sciences; Solasia Pharma K.K., Tokyo; and Verastem, Inc. He previously served as a director of Arriva Pharmaceuticals, BioMarin, Biovitrum, Chiasma, Coelacanth, Idenix, Kourion, MediGene, Omrix Biopharmaceuticals, Pharmasset, Inc.; PharmAthene, Transform, Xanodyne Pharmaceuticals, and ViaCell. He is a member of the Board of Fellows of Harvard Medical School. Dr. Gadicke was selected as a director because of his business and professional experience.

Kurt Graves, 43, has been a director since the closing of the Merger in May 2011. Mr. Graves is a global industry leader with more than twenty years of US and global general management experience in top-tier U.S. and Europe-based pharmaceutical and biotechnology companies. He served as an Executive Vice President, Chief Commercial Officer and Head of Strategic Development at Vertex Pharmaceuticals Inc. from July 2007 to October 2009 where he led the development of the company's HCV and CF programs as well as the acquisition of Virochem Pharmaceuticals. Prior to joining Vertex, Mr. Graves held various leadership positions at Novartis Pharmaceuticals since 1999, including a member of the Executive Committee and the Global Head of the General Medicines Business, a \$15 billion dollar business with 8 therapeutic area franchises. He was also the first Chief Marketing Officer for the Pharmaceuticals division. Prior to that he served as US General Manager, Chair of the Operating Committee, and Head of US Commercial Operations during a period when the company was the fastest growing pharmaceutical company in the US. Prior to joining Novartis, Mr. Graves held various commercial and general management positions since 1990 at Merck and Astra/Merck Pharmaceuticals including US GI Business Unit Head where he was responsible for developing and commercializing for Prilosec(R) and Nexium(R) and the Prilosec OTC alliance with P&G. Mr. Graves has been Executive Chairman and director of Intarcia Therapeutics, Inc. since August 2010. He has been Executive Chairman of Biolex Therapeutics, Inc. since November 2010. He has also been a director of Pulmatrix Therapeutics, Alevium Pharmaceuticals, and Springleaf Therapeutics since 2010 as well. Mr. Graves earned his B.S. in Biology from Hillsdale College and has attended numerous executive leadership programs at Harvard, Wharton, and University of Michigan. Mr. Graves was selected as a director because of his business and professional experience.

Martin Muenchbach, Ph.D., 40, has been a director since the closing of the Merger in May 2011 and prior to the Merger, he served as an observer to the Board of Directors of Target since February 2007. Mr. Muenchbach launched BB BIOTECH VENTURES II in, and has managed it since, 2004. Previously, he was Partner at BioMedinvest and Investment Advisor at HBM Partners. At BioMedinvest, from 2003 to 2004, he led several of the firm's investments, and served on the board of portfolio companies. Before the merger of HBM Bioventures and NMT New Medical Technologies, he was Investment Manager at NMT from 1999 to 2003, where he was focusing on international private

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equity investments in biopharmaceutical and biotechnological companies. Before becoming a venture capitalist, from Dr. Münchbach gained experience in strategic marketing at Sanofi-Synthelabo. Dr. Münchbach holds a Ph.D. in Protein Chemistry, a MSc in Biochemistry and a Master in Industrial Engineering and Management from the Swiss Federal Institute of Technology (ETH), Zurich. Dr. Münchbach's current board assignments include BioVascular Inc, Molecular Partners AG, Optimer Pharmaceuticals Inc, and Tioga Pharmaceuticals Inc. Dr. Münchbach was selected as a director because of his business and professional experience.

Elizabeth Stoner, M.D., 60, has been a director since the closing of the Merger in May 2011. Dr. Stoner is a Managing Director at MPM Capital. She joined MPM in 2007 and is based at the Boston office. Dr. Stoner is also the Chief Development Officer of Rhythm Pharmaceuticals. She is an industry veteran with broad expertise in clinical research and pharmaceutical product development. Dr. Stoner joined MPM Capital following a 22 year career at Merck Research Laboratories. At the time of her retirement from Merck in 2007, she served as a Senior Vice President of Global Clinical Development Operations with responsibility for the Merck's clinical development activities in more than 40 countries. Dr. Stoner also oversaw the clinical development activities of Merck's Japanese partner, Banyu, led the clinical development for the Merck/Schering-Plough Joint Venture for Zetia/Vytorin, and played a critical leadership role in Merck's efforts to transform its worldwide clinical development operations. Earlier in her career at Merck, she had led the Proscar clinical development program from inception to establishing Merck as a leader in the field of prostate disease. As the Endocrine Therapeutic Head, Dr. Stoner's responsibilities included all steroid and lipid metabolism, as well as the growth hormone secretagogue clinical research programs. Prior to her position at Merck, she served as an Assistant Professor of Pediatrics at Cornell University Medical College from 1982 to 1985. She has been a director of Momenta Pharmaceuticals Inc. since October 25, 2007. She also served as director for Metabasis Pharmaceuticals. Dr. Stoner is a Member of the Scientific Advisory Board at Solasia, Inc. She received an M.D. from Albert Einstein College of Medicine, an M.S. in Chemistry from the State University of New York at Stony Brook, and a B.S. in Chemistry from Ottawa University, Kansas. Dr. Stoner was selected as a director because of her knowledge and expertise in the development of pharmaceutical products.

Terms of Office; Voting Arrangements as to Directors

Our directors and officers have been appointed for a one-year term or until their respective successors are duly elected and qualified or until their earlier resignation or removal in accordance with our By-Laws.

Pursuant to a stockholders' agreement and our Certificate of Incorporation:

(i) for so long as any shares of Series A-1 Stock are outstanding, the holders of a majority of the shares of Series A-1 Stock outstanding, voting as a separate class, shall have the right to elect two (2) members of the Board of Directors; and

(ii) Oxford Bioscience Partners IV L.P. (together with Saints Capital VI, L.P. and their respective affiliates and certain transferees), HealthCare Ventures VII, L.P. (together with its affiliates and certain transferees) and The Wellcome Trust Limited as trustee of The Wellcome Trust (together with its affiliates and certain transferees) (collectively, the "G3 Holders" and individually, each a "Group") voting as a separate class shall have the right to elect one (1) member of the Board of Directors of the Corporation by majority vote of the shares of Series A-1 Stock held by them; provided, however, that in order to be eligible to vote or consent with respect to the election of such member of the Board of Directors, a G3 Holder together with members of such G3 Holders' Group must hold greater than twenty percent (20%) of the shares of Series A-1 Stock purchased under the Series A-1 Stock Purchase Agreement by such G3 Holder and the members of such G3 Holders' Group; and

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(iii) MPM Capital L.P., voting as a separate class, shall have the right to elect one (1) member of the Board of Directors of the Corporation by majority vote of the shares of Series A-1 Stock held by MPM Capital L.P.; provided that such member of the Board of Directors shall be an individual with particular expertise in the development of pharmaceutical products; and, provided, further, that in order to be eligible to vote or consent with respect to the election of such member of the Board of Directors, MPM Capital L.P. together with members of the MPM Group (as defined in the Stockholders' Agreement, defined below) must hold greater than twenty percent (20%) of the shares of Series A-1 Stock purchased under the Series A-1 Stock Purchase Agreement by MPM Capital L.P. and the members of the MPM Group.

As part of the Amended and Restated Stockholders' Agreement, dated May 17, 2011, by and among the Company, as successor to Radius Health, Inc., and the Stockholders listed therein (the "Stockholders' Agreement"), which is filed as an exhibit to this Registration Statement of which this prospectus is a part, certain of the stockholders will agree to vote in favor of all nominations pursuant to the foregoing.

Certain Relationships and Transactions

Significant Employees

As of the date hereof, we have no significant employees, other than the Company's named executive officers.

Family Relationships

There are no family relationships among our directors or executive officers.

Involvement in Certain Legal Proceedings

To our knowledge, there have been no events under any bankruptcy act, no criminal proceedings and no Federal or State judicial or administrative orders, judgments, decrees or findings, no violations of any Federal or State securities law, and no violations of any Federal commodities law material to the evaluation of the ability and integrity of any director (existing or proposed), executive officer (existing or proposed), promoter or control person of the Company during the past ten (10) years.

Transactions with Related Persons

Since October 2010 until the closing of the Merger and Short-Form Merger, the Target funded our ongoing Exchange Act filing requirements and other costs associated with investigating and analyzing an acquisition. Management estimates such amounts to be de minimus. We have utilized the office space and equipment of MPM Asset Management LLC, our sole stockholder prior to the Redemption completed in connection with the Merger and those of Target from time to time, in all cases, at no cost to us.

As described above, Dr. Lyttle, a current director and executive officer was the President and Chief Executive Officer of Target prior to the Merger, and each of Dr. Lyttle, Mr. Auerbach, Dr. Gadick, and Mr. Fleming, each directors, served as directors of the Target prior to the Merger. In addition, an investment fund affiliated with MPM Asset Management LLC (our sole stockholder prior to the Merger), MPM BioVentures III Fund, was an investor in Target prior to the Merger.

Policies and Procedures for Review, Approval or Ratification of Transactions with Related Persons

We do not have any special committee, policy or procedure related to the review, approval or ratification of related party transactions, other than as required by the Delaware General Corporation Law.

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Director Independence

Our securities are not listed on a national securities exchange or on any inter-dealer quotation system which has a requirement that directors be independent. As both of our present directors are also executive officers of the Company, we do not presently have any independent directors. We evaluate independence by the standards for director independence established by applicable laws, rules, and listing standards, including, without limitation, the standards for independent directors established by the New York Stock Exchange, Inc., the NASDAQ National Market, and the Securities and Exchange Commission.

Subject to some exceptions, these standards generally provide that a director will not be independent if (a) the director is, or in the past three years has been, an employee of ours; (b) a member of the director's immediate family is, or in the past three years has been, an executive officer of ours; (c) the director or a member of the director's immediate family has received more than \$120,000 per year in direct compensation from us other than for service as a director (or for a family member, as a non-executive employee); (d) the director or a member of the director's immediate family is, or in the past three years has been, employed in a professional capacity by our independent public accountants, or has worked for such firm in any capacity on our audit; (e) the director or a member of the director's immediate family is, or in the past three years has been, employed as an executive officer of a company where one of our executive officers serves on the compensation committee; or (f) the director or a member of the director's immediate family is an executive officer of a company that makes payments to, or receives payments from, us in an amount which, in any twelve-month period during the past three years, exceeds the greater of \$1,000,000 or two percent of that other company's consolidated gross revenues.

Each of Alan Auerbach, Jonathan Fleming, Ansbert K. Gadicke, M.D., Kurt Graves, Martin Muenchbach, Ph.D. and Elizabeth Stoner, M.D. qualify as independent directors under the foregoing standard.

Board of Directors' Meetings

During the fiscal year ended December 31, 2010, our board of directors did not meet. We did not hold an annual meeting in 2010. Our board of directors conducted all of its business and approved all corporate action during the fiscal year ended December 31, 2010 by the unanimous written consent of its members, in the absence of formal board meetings.

Committees of the Board of Directors

As our Common Stock is not presently listed for trading or quotation on a national securities exchange or NASDAQ, we are not presently required to have board committees. In addition, due to our small size and limited operations to date, we do not presently have an audit committee, compensation committee or nominating committee or other committees performing similar functions. Our entire board presently performs the functions that would otherwise be performed by such committees. We have not adopted any procedures by which security holders may recommend nominees to our board of directors. We do not have a diversity policy. We do not have a qualified financial expert at this time because it has not been able to hire a qualified candidate. Further, we believe that it has inadequate financial resources at this time to hire such an expert. We intend to continue to search for a qualified individual for hire. The new board of directors will consider forming an audit committee, compensation committee and nominating and corporate governance committee.

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Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors and officers, and persons who beneficially own more than ten percent (10%) of the Company's Common Stock (collectively, the "Reporting Persons"), to file reports with the SEC of beneficial ownership and reports of changes in beneficial ownership of Common Stock on Forms 3, 4 and 5. Reporting Persons are required by applicable SEC rules to furnish us with copies of all such forms filed with the SEC pursuant to Section 16(a) of the Exchange Act. To our knowledge, based solely on our review of the copies of the Forms 3, 4 and 5 received by it during the fiscal year ended December 31, 2010, the Company believes that all reports required to be filed by such persons with respect to the Company's fiscal year ended December 31, 2010 were timely filed, except the following reports: (a) Form 3 filed by C. Richard Lyttle on April 29, 2011; and (b) Form 3 filed by Nicholas Harvey on April 29, 2011.

Code of Ethics

We have not adopted a Code of Business Conduct and Ethics that applies to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions in that our officers and directors serve in these capacities.

Board Leadership Structure and Role on Risk Oversight

Dr. C. Richard Lyttle currently serves as our Chief Executive Officer, President and Director, and Nick Harvey currently serves as our Chief Financial Officer, Treasurer, and Secretary. At present, we have determined this leadership structure, together with the rest of our board of directors, is appropriate due to our small size and limited operations and resources. Our current directors are exclusively involved in the general oversight of risks that could affect our business. The proposed directors will continue to evaluate our leadership structure and modify such structure as appropriate based on our size, resources, and operations.

Legal Proceedings

We are not aware of any legal proceedings in which any director, officer, or record or beneficial owner of 5% or more of our outstanding capital stock is a party adverse to us or has a material interest adverse to us, or an affiliate of such persons.

Stockholder Communication with the Board of Directors

Stockholders may send communications to our board of directors by writing to the Company, c/o Radius Health, Inc., 201 Broadway, 6th Fl., Cambridge, MA, 02116 Attention: Board of Directors.

Executive and Director Compensation

The following tables summarize all compensation earned by or paid to our Chief Executive and Financial Officer (Principal Executive and Financial Officer) and other named executive officers during the two fiscal years ended December 31, 2010 and 2009. We have not had any formal policy for determining the compensation of executive officers.

Table of Contents**SUMMARY COMPENSATION TABLE*****By Us Prior to the Merger***

Prior to the Merger, we had not issued any stock options or maintained any stock option or other equity incentive plans. Prior to the Merger, we no plans in place and never maintained any plans that provided for the payment of retirement benefits or benefits that will be paid primarily following retirement including, but not limited to, tax qualified deferred benefit plans, supplemental executive retirement plans, tax-qualified deferred contribution plans and nonqualified deferred contribution plans. Similarly, we had no contracts, agreements, plans or arrangements, whether written or unwritten, that provide for payments to any named executive officers or any other persons following, or in connection with the resignation, retirement or other termination of a named executive officer, or a change in control of us or a change in a named executive officer's responsibilities following a change in control. The following table summarizes all compensation earned by or paid to Chief Executive Officer and Financial Officer during two fiscal years ended December 31, 2010 and 2009

Name and Principal Position	Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Award (\$)	Non- Equity Incentive Plan	Non- qualified Deferred Compensation	All Other Compensation	Total (\$)
						(\$)	(\$)	(\$)	
Steven St. Peter, President, Director, Principal Executive Officer and Principal Financial Officer	2010(1)	0	0	0	0	0	0	0	0
	2009	0	0	0	0	0	0	0	0
John Vander Vort, Secretary and Director	2010(1)	0	0	0	0	0	0	0	0
	2009	0	0	0	0	0	0	0	0
Richard Lyttle, President, Director, Principal Executive Officer	2010(2)	0	0	0	0	0	0	0	0
	2009	0	0	0	0	0	0	0	0
Nick Harvey, Senior Vice President, Director Principal Financial Officer, Treasurer and Secretary	2010(2)	0	0	0	0	0	0	0	0
	2009	0	0	0	0	0	0	0	0

Notes:

- (1) Resigned in November 2010.
- (2) Appointed in November 2010.

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By Target Prior to the Merger

The following tables summarize all compensation earned by or paid to Target's Chief Executive and Financial Officer (Principal Executive and Financial Officer) and other named executive officers during the two fiscal years ended December 31, 2010 and 2009. Target did not have any formal policy for determining the compensation of executive officers.

Name and Principal Position	Year	Salary (\$)	Bonus (\$)(1)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Non-qualified		All Other Compensation (\$)(2)	Total (\$)
						Incentive Compensation (\$)	Deferred Earnings Compensation (\$)		
Richard Lyttle, President, Director, and Chief Executive Officer	2010	378,622	0	0	0	0	0	1715	380,337
	2009	369,387	73,877	0	0	0	0	1,584	444,848
Nick Harvey, Treasurer, Secretary and Chief Financial Officer and Director	2010	278,492	0	0	0	0	0	1,305	279,797
	2009	271,700	40,755	0	0	0	0	851	313,306
Louis O'Dea, Sr. Vice-President and Chief Medical Officer	2010	319,363	0	0	0	0	0	1,032	320,395
	2009	311,574	51,410	0	0	0	0	105	363,089
Gary Hattersley, Vice President, Biology & Pharmacology	2010	223,860	0	0	0	0	0	240	224,100
	2009	218,400	27,300	0	0	0	0	240	245,940

Notes:

- (1) Bonuses related to prior years are shown in same year, even if paid subsequent to year end. The amount of bonuses for the fiscal year ended in 2010 have not been determined yet.
- (2) All amounts are attributable to life insurance premiums paid by Radius.

Compensation of Directors

No member of our board of directors received any compensation for services as a director of the Company during the fiscal year ended December 31, 2010. Neither we nor Target has had any formal policy governing the compensation of directors.

During Target's fiscal year ended December 31, 2010, Target granted to Alan Auerbach options to acquire 256,666 shares of Radius Common Stock at an exercise price of \$1.35 per share. The following table summarizes all compensation earned by or paid to Mr. Auerbach in the fiscal year ended December 31, 2010. Mr. Auerbach was not a director of Target in 2009. Mr. Auerbach's options were assumed by us in the Merger.

Name and Principal Position	Year	Salary (\$)	Bonus (\$)(1)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Non-qualified		All Other Compensation (\$)	Total (\$)
						Incentive Compensation (\$)	Deferred Earnings Compensation (\$)		
Alan H. Auerbach (Director)	2010	0	0	0	\$ 194,040	0	0	0	\$ 194,040

Grants of Plan-Based Awards and Equity Awards

No plan-based awards or equity awards were granted to any of our or Target's named executive officers or directors during the fiscal year ended December 31, 2010.

Table of Contents**Option Exercises and Stock Vested; Outstanding Equity Awards at Fiscal Year End**

No unexercised options or warrants were held by any of our named executive officers at December 31, 2010. No options to purchase our capital stock were exercised by any of our named executive officers, nor was any restricted stock held by such executive officers vested during the fiscal year ended December 31, 2010.

During the fiscal year ended December 31, 2010, no Target options held by named executive officers, director or proposed director were exercised. At the end of such period, the following options (which will be assumed in the Merger by the Company) were held by our named executive officers, directors and proposed Company directors. We assumed all Target options in the Merger:

Name	Number of Unexercised Securities		Exercise Price	Expiration
	Exercisable	Unexercisable		
C. Richard Lyttle	101,562	6,770	\$ 1.50	10/28/14
	148,605	9,906	\$ 0.90	7/12/17
	190,005	12,667	\$ 1.20	5/8/18
	80,977	5,398	\$ 1.50	12/3/18
Nicholas Harvey	66,711	16,677	\$ 0.90	7/12/17
	51,459	11,875	\$ 1.20	5/8/18
	13,496	13,496	\$ 1.20	12/3/18
Louis O'Dea	13,141	9,500	\$ 1.50	2/15/16
	34,622	6,924	\$ 0.90	7/12/17
	57,634	13,300	\$ 1.20	5/8/18
	15,115	15,115	\$ 1.20	12/3/18
Gary Hattersley	10,833	0	\$ 1.50	12/16/13
	5,416	0	\$ 1.50	2/15/16
	20,804	2,972	\$ 0.90	7/12/17
	24,700	5,700	\$ 1.20	5/8/18
	6,478	6,478	\$ 1.20	12/3/18
Alan Auerbach	0	138,973	\$ 1.35	10/12/20
	0	117,693	\$ 1.35	10/12/20

2003 Option Plan

In the Merger, the we assumed the Target's 2003 Long-Term Incentive Plan (the "Incentive Plan") and all options to acquire common stock of Target issued thereunder. The plan is intended to assist us and our affiliates in attracting and retaining employees and consultants of outstanding ability and to promote the identification of their interests with those of our stockholders and our affiliates. Under the plan, we are authorized to issue incentive stock options, nonstatutory stock options, rights, incentive stock grants, performance stock grants and restricted stock. Only incentive stock options and non-statutory stock options have been granted under the plan. We have 1,319,682 options issued and unexercised, 998,254 of which are vested. The Company has the right to issue additional awards under the plan for and aggregate 315,194 shares of Common Stock. If an option or right expires or terminates for any reason (other than termination by virtue of the exercise of a related option or related right, as the case may be) without having been fully exercised, if shares of restricted stock are forfeited, or if shares covered by an incentive share award or performance award are not issued or are forfeited, the unissued or forfeited shares that had been subject to the award become available for the grant of additional awards. The plan is administered by the our board of directors.

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Employment Agreements

Each of the named executive officers are at-will employees eligible for discretionary bonus and equity incentive awards with certain severance rights discussed further below.

Potential Payments upon Termination or Change in Control

If his employment is terminated without cause or he resigns for good reason, Dr. Lyttle will receive 12 months salary in severance payments, payable in accordance with the payroll practice then in effect, and for a period of 12 months, the continued payment or subsidy of health insurance benefits to the same extent as being paid or subsidized at the time of termination. Upon a change of control, if not offered a position or terminated within 12 months following the closing, Dr. Lyttle shall be entitled to 18 months salary in severance payments and 50% of his then unvested options will become immediately vested and exercisable. Under certain circumstances additional options may vest.

If his employment is terminated without cause or he resigns with good reason, Mr. Harvey will receive 6 months salary in severance payments, payable in accordance with the payroll practice then in effect, and for a period of 6 months, the continuation of health insurance at no cost to him for 6 months and all options which would have vested in the 6 months following such termination but for such termination shall become immediately exercisable. If the Company is acquired, 50% of his then unvested options will become immediately vested and exercisable.

Following termination of employment without cause, and subject to signing a general release, Mr. Hattersley and Mr. O'Dea are entitled to severance payments equal to 6 months of their then current base salary (minus required withholdings). In addition, they elect and remain eligible for COBRA coverage during the such six month period, they are entitled to be reimbursed for the portion of COBRA premium would have been paid by the Company had such person remained employed by Company during such period.

Pension Benefits

No named executive officers received or held pension benefits during the fiscal year ended December 31, 2010.

Nonqualified Deferred Compensation

No nonqualified deferred compensation was offered or issued to any named executive officer during the fiscal year ended December 31, 2010.

Compensation Committee Interlocks and Insider Participation

We do not have a Compensation Committee. All compensation matters are approved by the full Board.

Table of Contents**SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT**

The following table sets forth (i) each person known by the Company to be the beneficial owner calculated in accordance with Rule 13d-3(d)(1) promulgated under the Exchange Act of more than 5% of the outstanding shares of Common Stock, (ii) each director and executive officer of the Company and (iii) all officers and directors as a group. Beneficial ownership is determined pursuant to the rules of the SEC. Unless otherwise stated in the table or its footnotes, the person and entities listed below have the sole voting power and investment power with respect to the shares set forth next to one's name. Unless otherwise noted, the address of each stockholder below is c/o Radius Health, Inc., 201 Broadway, 6th Floor Cambridge, MA 02139.

Name, (Title) and Address	Amount and Nature of Beneficial Ownership	Percentage of Class(1)
C. Richard Lyttle, Ph.D. (Chief Executive Officer, President and Director)(2)	521,150	51.60%
Nick Harvey (Chief Financial Officer, Treasurer, and Secretary)(3)	148,603	22.04%
Louis O'Dea(4)	185,115	26.02%
Gary Hattersley(5)	79,335	12.50%
Dr. Ansbert Gadicke (Director)(6)	6,563,550	92.20%
Alan H. Auerbach (Director)(7)	64,166	10.35%
Jonathan Fleming (Director)(8)	1,364,834	71.64%
Kurt Graves (Director)	0	0%
Dr. Martin Muenchbach (Director)(9)	1,487,580	72.81%
Elizabeth Stoner (Director)	0	0%
Entities Affiliated with: MPM Bioventures III, L.P.(10) c/o MPM Capital 200 Carendon St 54th Fl. Boston, MA 02116	6,563,550	92.20%
The Wellcome Trust Limited as trustee of The Wellcome Trust(11) 215 Euston Road London NW1 2BE England	2,358,470	80.93%
HealthCare Ventures VII, L.P.(12) 55 Cambridge Parkway, Suite 102 Cambridge, Massachusetts 02142-1234	1,899,033	77.37%
Entities Affiliated with: Saints Captial VI, L.P.(13) 475 Sansome Street Suite 1850 San Francisco, CA 94111	1,528,584	73.89%

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Name, (Title) and Address	Amount and Nature of Beneficial Ownership	Percentage of Class(1)
BB Biotech Ventures II, L.P.(14) Trafalgar Court Les Banques St. Peter Port Guernsey Channel Islands GY1 3QL	1,487,580	72.81%
Entities Affiliated with:		
Oxford Bioscience Partners(15) 222 Berkley Street Suite 1650 Boston, MA 02116	1,364,824	71.64%
Healthcare Private Equity Limited Partnership(16) Edinburgh One Morrison Street Edinburgh EH3 8BE U.K.	628,910	53.09%
Brookside Capital Partners Fund, L.P.(17) Bain Capital, LLC 111 Huntington Avenue Boston, MA 02199	409,400	42.43%
BB Biotech Growth N.V. Asset Management BAB N.V. Ara Hill Top Building, Unit A-5 Pletterijweg Oost 1 Curaçao, Dutch Caribbean	409,400	42.43%
Ipsen Pharma S.A.S(19) 65, quai Georges Gorse 92100 Boulogne Billancourt France	173,260	23.77%
Stavros C. Manolagas(20) 35 River Ridge Circle Little Rock, AR 72227	91,040	16.39%
Nordic Bioscience(21) Herlev Hovedgade 207 2730 Herlev Denmark	64,430	10.39%
Michael Rosenblatt(22) 130 Lake Ave Newton, MA 02459	46,664	8.49%
John Katzenellenbogen Trust(23) 704 West Pennsylvania Avenue Urbana, Illinois 61801	49,399	8.89%

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Name, (Title) and Address	Amount and Nature of Beneficial Ownership	Percentage of Class(1)
Chris Miller(24) 11 Edgar Walker Court Hingham, MA 02043	33,355	6.00%
Bart Henderson(25) 48 Prentiss Lane Belmont, MA 02478	30,468	5.48%
All Officers and Directors as a group (10 individuals)(26)	10,414,333	96.00%

- (1) Because shares of Preferred Stock vote together with Common Stock on an as-converted basis the percentages of beneficial ownership reported in this column do not reflect the beneficial owner's voting percentage of our outstanding capital stock. A more accurate reflection of the each beneficial owner's voting percentage is their percentage of the fully-diluted shares of Common Stock which equals 16,086,040 shares (the "Fully-Diluted Shares"), assuming the conversion of all issued and outstanding shares of Preferred Stock, the exercise of all issued and outstanding warrants to purchase Common Stock or Preferred Stock, as well as the conversion of all shares of Preferred Stock issuable upon exercise of such warrants. In order to provide accurate disclosure of the relevant voting percentages of each beneficial owner included in this table we have set forth each such beneficial owner's ownership percentage of the Fully-Diluted Shares in each applicable footnote below.
- (2) Includes 454,484 options to purchase our Common Stock anticipated to be exercisable within 60 days after the date hereof. Dr. Lyttle beneficially owns 3.15% of the Fully-Diluted Shares.
- (3) Includes 118,603 options to purchase our Common Stock anticipated to be exercisable within 60 days after the date hereof. Mr. Harvey beneficially owns 0.93% of the Fully-Diluted Shares.
- (4) Includes 155,908 options to purchase our Common Stock anticipated to be exercisable within 60 days after the date hereof. Mr. O'Deal beneficially owns 1.16% of the Fully-Diluted Shares.
- (5) Includes 79,335 options to purchase our Common Stock anticipated to be exercisable within 60 days after the date hereof. Mr. Hattersley beneficially owns 0.50% of the Fully-Diluted Shares.
- (6) Includes 82,220 shares of Common Stock issuable upon conversion of 8,222 shares of Company Series A-1 Preferred Stock, 121,940 shares of Common Stock issuable upon conversion of 12,194 shares of Company Series A-2 Preferred Stock, 29,850 shares of Common Stock issuable upon conversion of 2,985 shares of Company Series A-3 Preferred Stock issued to MPM BioVentures III, L.P. in the Merger; 1,222,900 shares of Common Stock issuable upon conversion of 122,290 shares of Company Series A-1 Preferred Stock, 1,813,640 shares of Common Stock issuable upon conversion of 181,364 shares of Company Series A-2 Preferred Stock, and 443,950 shares of Common Stock issuable upon conversion of 44,395 shares of Company Series A-3 Preferred Stock issued to MPM BioVentures III-QP, L.P., in the Merger; 103,350 shares of Common Stock issuable upon conversion of 10,335 shares of Company Series A-1 Preferred Stock, 153,270 shares of Common Stock issuable upon conversion of 15,327 shares of Company Series A-2 Preferred Stock, and 37,520 shares of Common Stock issuable upon conversion of 3,752 shares of Company Series A-3 Preferred Stock issued to MPM BioVentures III GmbH & Co. Beteiligungs KG., in the Merger; 36,930 shares of Common Stock issuable upon conversion of 3,693 shares of Company Series A-1 Preferred Stock, 54,770 shares of Common Stock issuable upon conversion of 5,477 shares of Company Series A-2 Preferred Stock, and 13,400 shares of Common Stock issuable upon conversion of 1,340 shares of Company Series A-3 Preferred Stock issued to MPM BiVentures III Parallel Fund, L.P., in the Merger; 23,680 shares of Common Stock issuable upon conversion of 2,368 shares of Company Series A-1 Preferred Stock, 35,110 shares of

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Common Stock issuable upon conversion of 3,511 shares of Company Series A-2 Preferred Stock, and 8,590 shares of Common Stock issuable upon conversion of 859 shares of Company Series A-3 Preferred Stock issued to MPM Asset Management Investors 2003 BVIII LLC in the Merger; 540,010 shares of Common Stock issuable upon conversion of 54,001 shares of Company Series A-1 Preferred Stock, and 1,842,420 shares of Common Stock issuable upon conversion of 184,242 shares of Company Series A-2 Preferred Stock issued to MPM Bio IV NVS Strategic Fund, L.P. in the Merger. Additionally, MPM BioVentures III, L.P. has committed to purchase an aggregate of 6,874 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM BioVentures III-QP, L.P., has committed to purchase an aggregate of 102,238 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM BioVentures III GmbH & Co. Beteiligungs KG., has committed to purchase an aggregate of 8,640 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM BioVentures III Parallel Fund, L.P., has committed to purchase an aggregate of 3,087 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM Asset Management Investors 2003 BVIII LLC has committed to purchase an aggregate of 1,979 shares of Company Series A-1 Preferred Stock at two subsequent closings, and MPM Bio IV NVS Strategic Fund, L.P. has committed to purchase an aggregate of 60,536 shares of Company Series A-1 Preferred Stock at two subsequent closings. MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ("BV3LLC"), are the direct and indirect general partner of MPM BioVentures III, L.P., MPM BioVentures III-QP, L.P., MPM BioVentures III GmbH & Co. Beteiligungs KG and MPM BioVentures III Parallel Fund, L.P. MPM BioVentures IV GP LLC and MPM BioVentures IV LLC are the direct and indirect general partners of MPM Bio IV NVS Strategic Fund, L.P. Dr. Gadick is a Series A Member of BV3LLC, Member of BV4LLC and Manager of MPM Asset Management Investors 2003 BVIII LLC and shares voting and investment power with respect to these shares. Each entity mentioned above and Dr. Gadick disclaim beneficial ownership of all shares not held by it or him of record. Dr. Gadick may be deemed to beneficially own 40.80% of the Fully-Diluted Shares.

(7) Includes 64,166 options to purchase our Common Stock anticipated to be exercisable within 60 days after the date hereof. Mr. Auerbach beneficially owns 0.40% of the Fully-Diluted Shares.

(8) Includes 15,173 shares of Common Stock and 1,086,280 shares of Common Stock issuable upon conversion of 108,628 shares of Company Series A-2 Preferred Stock, 249,830 shares of Common Stock issuable upon conversion of 24,983 shares of Company Series A-3 Preferred Stock (the "OBP IV Shares") issued to Oxford Bioscience Partners IV L.P. ("OBP IV") in the Merger; and 151 shares of Common Stock and 10,900 shares of Common Stock issuable upon conversion of 1090 shares of Company Series A-2 Preferred Stock, 2,500 shares of Common Stock issuable upon conversion of 250 shares of Company Series A-3 Preferred Stock (the "mRNA Fund II Shares") issued to mRNA Fund II L.P. ("mRNA Fund II") in the Merger. The Oxford Shares are indirectly held by OBP Management IV L.P. ("OBP Management IV"), the sole general partner of each of OBP IV and mRNA Fund II, and the individual general partners of OBP Management IV (OBP Management IV and its individual general partners together, the "Indirect Reporting Persons"). The individual general partners of OBP Management IV are Jonathan Fleming and Alan Walton. Each Indirect Reporting Person disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the Oxford Shares in which such Indirect Reporting Person has no actual pecuniary interest therein. Mr. Fleming may be deemed to beneficially own 8.48% of the Fully-Diluted Shares.

(9) Includes 435,960 shares of Common Stock issuable upon conversion of 43,596 shares of Company Series A-1 Preferred Stock, and 1,051,620 shares of Common Stock issuable upon conversion of 105,162 shares of Company Series A-2 Preferred Stock issued to BB Biotech Ventures II L.P. in the Merger. Additionally, BB Biotech Ventures II L.P. has committed to purchase an aggregate of 40,940 shares of Company Series A-1 Preferred Stock at two subsequent closings. Voting and

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investment power with respect to these shares is shared by the general partners of this funds. Dr. Muenchbach disclaims ownership of all shares not held by him of record. Dr. Muenchbach may be deemed to beneficially own 9.25% of the Fully-Diluted Shares.

- (10) Includes 82,220 shares of Common Stock issuable upon conversion of 8,222 shares of Company Series A-1 Preferred Stock, 121,940 shares of Common Stock issuable upon conversion of 12,194 shares of Company Series A-2 Preferred Stock, 29,850 shares of Common Stock issuable upon conversion of 2,985 shares of Company Series A-3 Preferred Stock issued to MPM Bioventures III Funds in the Merger; 1,222,900 shares of Common Stock issuable upon conversion of 122,290 shares of Company Series A-1 Preferred Stock, 1,813,640 shares of Common Stock issuable upon conversion of 181,364 shares of Company Series A-2 Preferred Stock, and 443,950 shares of Common Stock issuable upon conversion of 44,395 shares of Company Series A-3 Preferred Stock issued to MPM Bioventures III-QP, L.P., in the Merger; 103,350 shares of Common Stock issuable upon conversion of 10,335 shares of Company Series A-1 Preferred Stock, 153,270 shares of Common Stock issuable upon conversion of 15,327 shares of Company Series A-2 Preferred Stock, and 37,520 shares of Common Stock issuable upon conversion of 3,752 shares of Company Series A-3 Preferred Stock issued to MPM Bioventures III GMBH & Co., in the Merger; 36,930 shares of Common Stock issuable upon conversion of 3,693 shares of Company Series A-1 Preferred Stock, 54,770 shares of Common Stock issuable upon conversion of 5,477 shares of Company Series A-2 Preferred Stock, and 13,400 shares of Common Stock issuable upon conversion of 1,340 shares of Company Series A-3 Preferred Stock issued to MPM Bioventures III Parallel Fund, L.P., in the Merger; 23,680 shares of Common Stock issuable upon conversion of 2,368 shares of Company Series A-1 Preferred Stock, 35,110 shares of Common Stock issuable upon conversion of 3,511 shares of Company Series A-2 Preferred Stock, and 8,590 shares of Common Stock issuable upon conversion of 859 shares of Company Series A-3 Preferred Stock issued to MPM Asset Management Investors 2003 in the Merger; 540,010 shares of Common Stock issuable upon conversion of 54,001 shares of Company Series A-1 Preferred Stock, and 1,842,420 shares of Common Stock issuable upon conversion of 184,242 shares of Company Series A-2 Preferred Stock issued to MPM Bio IV NVS Strategic Fund in the Merger. Additionally, MPM Bioventures III Funds has committed to purchase an aggregate of 6,874 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM Bioventures III-QP, L.P., has committed to purchase an aggregate of 102,238 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM Bioventures III GMBH & Co., has committed to purchase an aggregate of 8,640 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM Bioventures III Parallel Fund, L.P., has committed to purchase an aggregate of 3,087 shares of Company Series A-1 Preferred Stock at two subsequent closings, MPM Asset Management Investors 2003 has committed to purchase an aggregate of 1,979 shares of Company Series A-1 Preferred Stock at two subsequent closings, and MPM Bio IV NVS Strategic Fund has committed to purchase an aggregate of 60,536 shares of Company Series A-1 Preferred Stock at two subsequent closings. Voting and investment power is shared with Dr. Gadicke and the other general partners of these funds. Each fund mentioned above disclaims beneficial ownership of all shares not held by it of record. Each fund mentioned above may be deemed to beneficially owns 40.80% of the Fully-Diluted Shares.
- (11) Includes 255,220 shares of Common Stock issuable upon conversion of 25,522 shares of Company Series A-1 Preferred Stock, and 2,103,250 shares of Common Stock issuable upon conversion of 210,325 shares of Company Series A-2 Preferred Stock issued to The Wellcome Trust Limited as trustee of The Wellcome Trust in the Merger. Additionally, The Wellcome Trust Limited as trustee of The Wellcome Trust has committed to purchase an aggregate of 51,044 shares of Company Series A-1 Preferred Stock at two subsequent closings. The Wellcome Trust Limited as trustee of The Wellcome Trust beneficially owns 14.66% of the Fully-Diluted Shares.

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- (12) Includes 83,113 shares of Common Stock and 196,510 shares of Common Stock issuable upon conversion of 19,651 shares of Company Series A-1 Preferred Stock, 982,780 shares of Common Stock issuable upon conversion of 98,278 shares of Company Series A-2 Preferred Stock, 636,630 shares of Common Stock issuable upon conversion of 63,663 shares of Company Series A-3 Preferred Stock issued to HealthCare Ventures VII in the Merger. Additionally, HealthCare Ventures VII has committed to purchase an aggregate of 39,302 shares of Company Series A-1 Preferred Stock at two subsequent closings. HealthCare Ventures VII beneficially owns 11.81% of the Fully-Diluted Shares.
- (13) Includes: (i) 15,173 shares of Common Stock (the "OBP IV Common Shares") held directly by OBP IV Holdings LLC ("OBP IV"); (ii) 1,498,240 shares of Common Stock (the "OBP IV Conversion Shares" and, together with the OBP IV Common Shares, the "OBP IV Shares") issuable to OBP IV upon the conversion in the Merger of 16,213 shares of Company Series A-1 Preferred Stock held directly by OBP IV, 108,628 shares of Company Series A-2 Preferred Stock held directly by OBP IV and 24,983 shares of Company Series A-3 Preferred Stock held directly by OBP IV; (iii) 151 shares of Common Stock (the "mRNA II Common Shares") held directly by mRNA II Holdings LLC ("mRNA II"); (iv) 15,020 shares of Common Stock (the "mRNA II Conversion Shares" and, together with the mRNA II Common Shares, the "mRNA II Shares") issuable to mRNA II upon the conversion in the Merger of 162 shares of Company Series A-1 Preferred Stock held directly by mRNA II, 1,090 shares of Company Series A-2 Preferred Stock held directly by mRNA II and 250 shares of Company Series A-3 Preferred Stock held directly by mRNA II. The OBP IV Shares and the mRNA II Shares are referred to herein as the "Saints Shares." The Saints Shares are indirectly held by Saints Capital Granite, L.P. ("Saints LP"), a member of OBP IV and mRNA II, Saints Capital Granite, LLC ("Saints LLC"), the sole general partner of Saints LP, and the individual managers of Saints LLC (Saints LP, Saints LLC and its individual managers together, the "Indirect Reporting Persons"). The individual managers of Saints LLC are Scott Halsted, David P. Quinlivan, and Kenneth B. Sawyer. Each Indirect Reporting Person disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the Saints Shares in which such Indirect Reporting Person has no actual pecuniary interest therein. The entities affiliated with Saints Capital VI, L.P. may be deemed to beneficially own 9.5% of the Fully-Diluted Shares.
- (14) Includes 435,960 shares of Common Stock issuable upon conversion of 43,596 shares of Company Series A-1 Preferred Stock, and 1,051,620 shares of Common Stock issuable upon conversion of 105,162 shares of Company Series A-2 Preferred Stock issued to BB Biotech Ventures II in the Merger. Additionally, BB Biotech Ventures II has committed to purchase an aggregate of 40,940 shares of Company Series A-1 Preferred Stock at two subsequent closings. BB Biotech Ventures II beneficially owns 9.25% of the Fully-Diluted Shares.
- (15) Includes: (i) 15,173 shares of Common Stock (the "OBP IV Common Shares") held directly by OBP IV Holdings LLC ("OBP IV"); (ii) 1,336,110 shares of Common Stock (the "OBP IV Conversion Shares" and, together with the OBP IV Common Shares, the "OBP IV Shares") issuable to OBP IV upon the conversion in the Merger of 108,628 shares of Company Series A-2 Preferred Stock held directly by OBP IV and 24,983 shares of Company Series A-3 Preferred Stock held directly by OBP IV; (iii) 151 shares of Common Stock (the "mRNA II Common Shares") held directly by mRNA II Holdings LLC ("mRNA II"); (iv) 13,400 shares of Common Stock (the "mRNA II Conversion Shares" and, together with the mRNA II Common Shares, the "mRNA II Shares") issuable to mRNA II upon the conversion in the Merger of 1,090 shares of Company Series A-2 Preferred Stock held directly by mRNA II and 250 shares of Company Series A-3 Preferred Stock held directly by mRNA II. The OBP IV Shares and the mRNA II Shares are referred to herein as the "Oxford Shares." The OBP IV Shares are indirectly held by Oxford Bioscience Partners IV L.P. ("OBP LP"), a member of OBP IV. The mRNA II Shares are

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indirectly held by mRNA Fund II L.P. ("mRNA LP"), a member of mRNA II. The Oxford Shares are indirectly held by OBP Management IV L.P. ("OBP Management IV"), the sole general partner of each of OBP LP and mRNA LP, and the individual general partners of OBP Management IV (OBP LP, mRNA LP, OBP Management IV and its individual general partners together, the "Indirect Reporting Persons"). The individual general partners of OBP Management IV are Jonathan Fleming and Alan Walton. Each Indirect Reporting Person disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the Oxford Shares in which such Indirect Reporting Person has no actual pecuniary interest therein. The entities affiliated with Oxford Bioscience Partners may be deemed to beneficially own 8.48% of the Fully-Diluted Shares.

- (16) Includes 68,050 shares of Common Stock issuable upon conversion of 6,805 shares of Company Series A-1 Preferred Stock, and 560,860 shares of Common Stock issuable upon conversion of 56,086 shares of Company Series A-2 Preferred Stock. Healthcare Private Equity Limited Partnership beneficially owns 3.91% of the Fully-Diluted Shares.
- (17) Includes 409,400 shares of Common Stock issuable upon conversion of 40,940 shares of Company Series A-1 Preferred Stock. Brookside Capital Partners Fund, L.P. beneficially owns 2.55% of the Fully-Diluted Shares.
- (18) If the percentage calculation was calculated in accordance with Rule 13d-3(d)(1) promulgated under the Exchange Act, which requires that only the outstanding shares of Common Stock and shares issuable upon conversion of derivative securities held by the reporting stockholder (i.e., 409,400 shares of Common Stock issuable upon conversion of Preferred Stock held by HealthCare Ventures VII), it would result in an applicable percentage of 42.43%. BB Biotech Growth N.V. beneficially owns 2.55% of the Fully-Diluted Shares.
- (19) Includes 409,400 shares of Common Stock issuable upon conversion of 40,940 shares of Company Series A-1 Preferred Stock. Ipsen Pharma S.A.S beneficially owns 1.08% of the Fully-Diluted Shares.
- (20) Includes 173,260 shares of Common Stock issuable upon conversion of 17,326 shares of Company Series A-1 Preferred Stock. Stavros C. Manolagas beneficially owns 0.57% of the Fully-Diluted Shares.
- (21) Includes 64,430 shares of Common Stock issuable upon conversion of 6,443 shares of Company Series A-5 Preferred Stock. Nordic Bioscience beneficially owns 0.40% of the Fully-Diluted Shares.
- (22) Includes 8,961 shares of Common Stock held by Mr. Katzenellenbogen. Mr. Katzenellenbogen is the trustee of the Katzenellenbogen Trust. The Katzenellenbogen Trust may be deemed to beneficially own the shares held by Mr. Katzenellenbogen. Michael Rosenblatt beneficially owns 0.29% of the Fully-Diluted Shares.
- (23) The John Katzenellenbogen Trust beneficially owns 0.31% of the Fully-Diluted Shares.
- (24) Chris Miller beneficially owns 0.21% of the Fully-Diluted Shares.
- (25) Bart Henderson beneficially owns 0.19% of the Fully-Diluted Shares.
- (26) The Directors and Officers as a group may be deemed to beneficially own 64.74% of the Fully-Diluted Shares.

Table of Contents**MARKET FOR COMMON EQUITY AND RELATED STOCKHOLDER MATTERS**

There is not currently, and there has never been, any market for any of our securities. Our securities are not eligible for trading on any national securities exchange, the Nasdaq or other over-the-counter markets.

USE OF PROCEEDS

We will not receive any proceeds from the resale of any of the shares offered by this prospectus by the selling stockholders. With respect to the underlying shares being offered hereby, we would receive gross proceeds of approximately \$320,551 assuming the exercise of all warrants. To the extent any of these warrants are exercised, we intend to use the proceeds to for general working capital and administrative functions.

DETERMINATION OF OFFERING PRICE

All shares being offered will be sold by existing stockholders without our involvement, consequently the actual price of the stock will be determined by prevailing market prices at the time of sale or by private transactions negotiated by the selling stockholders. The offering price will thus be determined by market factors and the independent decisions of the selling stockholders.

SELLING STOCKHOLDERS

This prospectus covers the resale by the selling stockholders identified below of 555,594 shares of our Common Stock, including 15,488,300 shares issuable upon conversion of Preferred Stock and 39,146 shares issuable upon the exercise of warrants and conversion of the underlying securities.

The following table sets forth the number of shares of our Common Stock beneficially owned by the selling stockholders as of June 23, 2011, and after giving effect to this offering.

Selling Stockholder	Shares Owned Before Offering(a)	Number of Outstanding Shares Offered by Selling Common Stock Stockholder	Number of Outstanding Shares Offered by Selling Preferred Stock Stockholder	Number of Shares Offered by Selling Stockholder upon Exercise of Certain Warrants	Number of Shares Offered by Selling Stockholder Registered Hereunder	Percentage Ownership After Offering
MPM Bioventures III, L.P.(1)	234,010	0	234,010	0	234,010	0.00%*
MPM Bioventures III-QP, L.P.(1)	3,480,490	0	3,480,490	0	3,480,490	0.00%*
MPM Bioventures III GMBH & Co. Beteiligungs KG(1)	294,140	0	294,140	0	294,140	0.00%*
MPM Bioventures III Parallel Fund, L.P.(1)	105,100	0	105,100	0	105,100	0.00%*
MPM Asset Management Investors 2003 BVIII LLC(1)	67,380	0	67,380	0	67,380	0.00%*
MPM Bio IV NVS Strategic Fund, L.P.(1)	2,382,430	0	2,382,430	0	2,382,430	0.00%*
The Wellcome Trust Limited, as Trustee of The Wellcome Trust	2,358,470	0	2,358,470	0	2,358,470	0.00%*
HealthCare Ventures VII, L.P.	1,899,033	83,113	1,815,920	0	1,899,033	0.00%*
OBP IV Holdings LLC(2)	1,513,413	15,173	159,824	0	1,513,413	0.00%*
mRNA Fund II Holdings LLC(2)	15,171	151	15,020	0	15,171	0.00%*
BB Biotech Ventures II, L.P.(3)	1,487,580	0	1,487,580	0	1,487,580	0.00%*

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Selling Stockholder	Shares Owned Before Offering(a)	Number of Outstanding Shares Offered by Selling Common Stockholder	Number of Outstanding Shares Offered by Selling Preferred Stockholder	Number of Shares Offered by Selling Stockholder upon Exercise of Certain Warrants	Number of Shares Offered by Selling Stockholder Registered Hereunder	Percentage Ownership After Offering
Healthcare Private Equity Limited Partnership	628,910	0	628,910	0	628,910	0.00%*
Dr. Raymond F. Schinazi	26,950	0	26,950	0	26,950	0.00%*
David E. Thompson Revocable Trust	18,150	0	18,150	0	18,150	0.00%*
Hostetler Family Trust	3,071	3,071	0	0	3,071	0.00%*
H.Watt Gregory, III	12,270	0	12,270	0	12,270	0.00%*
The Richman Trust dated 2/6/83	6,000	0	6,000	0	6,000	0.00%*
The Breining Family Trust dated August 15, 2003	3,750				3,750	0.00%*
Dr. Dennis A. Carson	533	533	0	0	533	0.00%*
Bronson Van Wyck	363	363	0	0	363	0.00%*
The Jonnie K. Westbrook Revocable Trust, Dated March 17, 2000	363	363	0	0	363	0.00%*
Nordic Bioscience Clinical Development VII A/S	64,430	0	64,430	0	64,430	0.00%*
Brookside Capital Partners Fund, L.P.	409,400	0	409,400	0	409,400	0.00%*
Biotech Growth N.V.	409,400	0	409,400	0	409,400	0.00%*
Ipsen Pharma SAS	173,260	0	173,260	0	173,260	0.00%*
GE Capital Equity Investments, Inc.	15,350	0	0	15,350	15,350	0.00%*
Oxford Finance LLC	15,350	0	0	15,350	15,350	0.00%*
Leerink Swann LLC	8,180	0	0	8,180	8,180	0.00%*
Stavros C. Manolagas	91,040	91,040	0	0	91,040	0.00%*
Dr. Michael Rosenblatt	46,664	46,664	0	0	46,664	0.00%*
Dr. John Potts, Jr and Susanne K. Potts Irrevocable Trust for Stephen K. Potts dated 6-15-05	20,291	20,291	0	0	20,291	0.00%*
Dr. John Thomas Potts, Jr.	4,496	0	0	0	4,496	0.00%*
John A. Katzenellenbogen Trust Under Agreement Dated August 2, 1999	40,438	40,438	0	0	40,438	0.00%*
John Katzenellenbogen, Ph.D.	8,961	8,961	0	0	8,961	0.00%*
Bart Henderson	30,468	30,468	0	0	30,468	0.00%*
Board of Trustees of the University of Arkansas	17,333	17,333	0	0	17,333	0.00%*
Sillicon Valley Bank	266	0	0	266	266	0.00%*
Benjamin C. Lane	8,125	8,125	0	0	8,125	0.00%*
Ruff Trust	5,124	5,124	0	0	5,124	0.00%*
H2 Enterprises, LLC	5,124	5,124	0	0	5,124	0.00%*
Dr. Karl Y. Hostetler	5,124	5,124	0	0	5,124	0.00%*
Stavroula Kousteni, Ph.D.	421	421	0	0	421	0.00%*
Robert L. Jilka, Ph.D.	572	572	0	0	572	0.00%*
Dr. Robert S. Weinstein	421	421	0	0	421	0.00%*
Teresita M. Bellido, Ph.D.	234	234	0	0	234	0.00%*
Dotty Paquin	891	891	0	0	891	0.00%*
Thomas E. Sparks, Jr.	883	883	0	0	883	0.00%*
Samuel Ho	833	833	0	0	833	0.00%*
Charles O'Brien, Ph.D.	140	140	0	0	140	0.00%*

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Selling Stockholder	Shares Owned Before Offering(a)	Number of Outstanding Shares Offered by Selling Common Stock Stockholder	Number of Outstanding Shares Offered by Selling Preferred Stock Stockholder	Number of Shares Offered by Selling Stockholder upon Exercise of Certain Warrants	Number of Shares Offered by Selling Stockholder Registered Hereunder	Percentage Ownership After Offering
Dr. Alwyn Michael Parfitt	280	280	0	0	280	0.00%*
Barnette Pitzele	266	266	0	0	266	0.00%*
Benita S. Katzenellenbogen, Ph.D.	187	187	0	0	187	0.00%*
Kelly Colbourn	102	102	0	0	102	0.00%*
Julie Glowacki, Ph.D.	93	93	0	0	93	0.00%*
Dr. Socrates E. Papapoulos	93	93	0	0	93	0.00%*
Tonya Goss	66	66	0	0	66	0.00%*
The Kent C. Westbrook Revocable Trust Dated March 17, 2000	46	46	0	0	46	0.00%*
Maysoun Shomali	2,383	2,383	0	0	2,383	0.00%*
Jonathan Guerriero	2,500	2,500	0	0	2,500	0.00%*
C. Richard Lyttle(4)	66,666	66,666	0	0	66,666	0.00%*
Louis O'Dea(5)	29,207	29,207	0	0	29,207	0.00%*
B. Nicholas Harvey(6)	30,000	30,000	0	0	30,000	0.00%*
Chris Miller	33,355	33,355	0	0	33,355	0.00%*
TOTALS:	16,083,040	555,594	15,488,300	39,146	16,083,040	

*

Assumes sale of all shares offered.

(a)

Assumes the conversion or exercise or all outstanding shares of Preferred Stock and warrants, respectively, held by such selling stockholder.

(1)

MPM BioVentures III GP, L.P. and MPM BioVentures III LLC ("BV III LLC") are the direct and indirect general partners of MPM BioVentures III-QP, L.P., MPM BioVentures III, L.P., MPM BioVentures III Parallel Fund, L.P. and MPM BioVentures III GmbH & Co. Beteiligungs KG. MPM BioVentures IV GP LLC ("BV IV LLC") and MPM BioVentures IV LLC are the direct and indirect general partners of MPM Bio IV NVS Strategic Fund, L.P. Dr. Gadicke as a Series A member of BV III LLC, a manager of MPM Asset Management Investors 2003 BVIII LLC and a member of BV IV LLC, has voting and dispositive control over the shares held by such selling stockholders. Each entity mentioned above and Dr. Gadicke disclaim beneficial ownership of all shares not held by it or him of record.

(2)

Jonathan Fleming, as an individual general partner of OBP Management IV L.P., the sole general partner of Oxford Bioscience Partners IV L.P. and mRNA Fund II L.P., who are each members of the selling stockholder, has voting and dispositive control over the shares held by such selling stockholder. Mr. Fleming disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the shares held by such selling stockholder to the extent that he has no actual pecuniary interest therein.

(3)

BB Biotech Ventures GP (Guernsey) Limited ("BBBV Limited") is the general partner of the selling stockholder. Martin Muenchbach, as the Senior Investment Advisor Private Equity at Bellevue Asset Management AG ("BAM AG"), who advises Asset Management BAB N.V., who, pursuant to a services agreement with BAM AG, advises the directors of BBBV Limited, may be deemed to have voting and dispositive control over the shares held by such selling stockholders. Dr. Muenchbach disclaims ownership of all shares not held by him of record.

(4)

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The selling stockholder is one of our Directors and is our President and Chief Executive Officer.

- (5) The selling stockholder is one of our Senior Vice Presidents and is our Chief Medical Officer.
- (6) The selling stockholder is one of our Senior Vice Presidents and is our Chief Financial Officer, Treasurer and Secretary.

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PLAN OF DISTRIBUTION

We are registering the shares offered by this prospectus on behalf of the selling stockholders. The selling stockholders, which as used herein includes donees, pledgees, transferees or other successors-in-interest selling shares of Common Stock or interests in shares of Common Stock received after the date of this prospectus from a selling stockholder as a gift, pledge, partnership distribution or other transfer, may, from time to time, sell, transfer or otherwise dispose of any or all of their shares of Common Stock or interests in shares of Common Stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These dispositions may be at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices.

The selling stockholders may use any one or more of the following methods when disposing of shares or interests therein:

ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;

block trades in which the broker-dealer will attempt to sell the shares as agent, but may position and resell a portion of the block as principal to facilitate the transaction;

purchases by a broker-dealer as principal and resale by the broker-dealer for its account;

an exchange distribution in accordance with the rules of the applicable exchange;

privately negotiated transactions;

short sales;

through the writing or settlement of options or other hedging transactions, whether through an options exchange or otherwise;

broker-dealers may agree with the selling stockholders to sell a specified number of such shares at a stipulated price per share;

a combination of any such methods of sale; and

any other method permitted pursuant to applicable law.

The selling stockholders may, from time to time, pledge or grant a security interest in some or all of the shares of Common Stock owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell the shares of Common Stock, from time to time, under this prospectus, or under an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act amending the list of selling stockholders to include the pledgee, transferee or other successors in interest as selling stockholders under this prospectus. The selling stockholders also may transfer the shares of Common Stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

In connection with the sale of our Common Stock or interests therein, the selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions, which may in turn engage in short sales of the Common Stock in the course of hedging the positions they assume. The selling stockholders may also sell shares of our Common Stock short and deliver these securities to close out their short positions, or loan or pledge the Common Stock to broker-dealers that in turn may sell these securities. The selling stockholders may also

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enter into option or other transactions with broker-dealers or other financial institutions or the creation of one or more derivative securities which require the delivery to such broker-dealer or other financial institution of shares offered by this prospectus, which shares such broker-dealer or other financial institution may resell pursuant to this prospectus (as supplemented or amended to reflect such transaction).

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The aggregate proceeds to the selling stockholders from the sale of the Common Stock offered by them will be the purchase price of the Common Stock less discounts or commissions, if any. Each of the selling stockholders reserves the right to accept and, together with their agents from time to time, to reject, in whole or in part, any proposed purchase of Common Stock to be made directly or through agents. We will not receive any of the proceeds from this offering. Upon any exercise of the warrants by payment of cash, however, we will receive the exercise price of the warrants.

The selling stockholders also may resell all or a portion of the shares in open market transactions in reliance upon Rule 144 under the Securities Act, provided that they meet the criteria and conform to the requirements of that rule.

The selling stockholders and any broker-dealers that act in connection with the sale of the shares offered hereby might be deemed to be "underwriters" within the meaning of Section 2(11) of the Securities Act, and any commissions received by such broker-dealers and any profit on the resale of the securities sold by them while acting as principals might be deemed to be underwriting discounts or commissions under the Securities Act.

To the extent required, the shares of our Common Stock to be sold, the names of the selling stockholders, the respective purchase prices and public offering prices, the names of any agents, dealer or underwriter, any applicable commissions or discounts with respect to a particular offer will be set forth in an accompanying prospectus supplement or, if appropriate, a post-effective amendment to the registration statement that includes this prospectus.

In order to comply with the securities laws of some states, if applicable, the Common Stock may be sold in these jurisdictions only through registered or licensed brokers or dealers. In addition, in some states the Common Stock may not be sold unless it has been registered or qualified for sale or an exemption from registration or qualification requirements is available and is complied with.

We have advised the selling stockholders that the anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of shares in the market and to the activities of the selling stockholders and their affiliates. In addition, we will make copies of this prospectus (as it may be supplemented or amended from time to time) available to the selling stockholders for the purpose of satisfying the prospectus delivery requirements of the Securities Act. The selling stockholders may indemnify any broker-dealer that participates in transactions involving the sale of the shares against certain liabilities, including liabilities arising under the Securities Act.

We have agreed to indemnify the selling stockholders against liabilities, including liabilities under the Securities Act and state securities laws, relating to the registration of the shares offered by this prospectus.

We have agreed with the selling stockholders to keep the registration statement of which this prospectus constitutes a part effective until the earlier of (1) such time as all of the shares covered by this prospectus have been disposed of pursuant to and in accordance with the registration statement or (2) the date on which the shares may be sold pursuant to Rule 144 of the Securities Act.

Shares Eligible For Future Sale

Upon completion of this offering and assuming the issuance of all of the shares covered by this prospectus that are issuable upon the exercise or conversion of convertible securities, there will be 16,086,040 shares of our Common Stock issued and outstanding. The shares purchased in this offering will be freely tradable without registration or other restriction under the Securities Act, except for any shares purchased by an "affiliate" of our company (as defined in the Securities Act).

Our currently outstanding shares that were issued in reliance upon the "private placement" exemptions provided by the Act are deemed "restricted securities" within the meaning of Rule 144.

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Restricted securities may not be sold unless they are registered under the Securities Act or are sold pursuant to an applicable exemption from registration, including an exemption under Rule 144 of the Securities Act.

In general, under Rule 144 as currently in effect, any person (or persons whose shares are aggregated) including persons deemed to be affiliates, whose restricted securities have been fully paid for and held for at least one year from the later of the date of issuance by us or acquisition from an affiliate, may sell such securities in broker's transactions or directly to market makers, provided that the number of shares sold in any three month period may not exceed the greater of one percent of the then-outstanding shares of our Common Stock or the average weekly trading volume of our shares of Common Stock in the over-the-counter market during the four calendar weeks preceding the sale. Sales under Rule 144 are also subject to certain notice requirements and the availability of current public information about our company. After two years have elapsed from the later of the issuance of restricted securities by us or their acquisition from an affiliate, such securities may be sold without limitation by persons who are not affiliates under the rule.

In the Merger, we assumed the Incentive Plan and all options to acquire Common Stock of the Target issued thereunder. Under the plan, the Company is authorized to issue incentive stock options, nonstatutory stock options, rights, incentive stock grants, performance stock grants and restricted stock. Only incentive stock options and non-statutory stock options have been granted under the plan. We have 1,319,682 options issued and unexercised, 998,254 of which are vested. The Company has the right to issue additional awards under the plan for an aggregate of 315,194 shares of Common Stock. If an option or right expires or terminates for any reason (other than termination by virtue of the exercise of a related option or related right, as the case may be) without having been fully exercised, if shares of restricted stock are forfeited, or if shares covered by an incentive share award or performance award are not issued or are forfeited, the unissued or forfeited shares that had been subject to the award become available for the grant of additional awards.

Registration Rights

Pursuant to the terms of the Stockholders' Agreement, on or before the 60th calendar day following the closing of the Merger, we are required to file a resale shelf registration statement (the "Resale Registration Statement") pursuant to Rule 415 of the Securities Act, covering the offering and resale of all of the Registrable Shares (meaning all of the Common Stock issued or issuable upon the conversion or exchange of the Preferred Stock). We are required to use reasonable best efforts to have the Resale Registration Statement declared effective by the 90th calendar day following the closing of the Merger unless we receive comments on the Resale Registration Statement from the SEC, in which case we shall use reasonable best efforts to have the Resale Registration Statement declared effective by the 180th calendar day following the closing of the Merger. In the event that the we are notified by the SEC that the Resale Registration Statement will not be reviewed or is no longer subject to further review and comments, we are required to use reasonable best efforts to have the Resale Registration Statement declared effective by the 5th trading day following such notification. We are required to use reasonable best efforts to keep the Resale Registration Statement continuously effective until all Registrable Shares have been sold or may be sold without volume limitations under Rule 144 promulgated under the Securities Act. In the event that any of these provisions are not complied with, as described in greater detail in the Stockholders' Agreement, on each such Event Date (as defined in the Stockholders' Agreement) and on each monthly anniversary of each such Event Date until such event is cured, the we are required to pay to each holder an amount in cash equal to one percent of the aggregate purchase price paid by such holder pursuant to the Purchase Agreement for any Registrable Securities (meaning the Preferred Stock) then held by such holder. The maximum aggregate liquidated damages payable to a holder under the Stockholders' Agreement is 16 percent of

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the aggregate purchase price paid by such holder pursuant to the Purchase Agreement. Interest accrues at the rate of 10 percent per annum on any unpaid liquidated damages.

Demand Registration Rights

At such time as the Resale Registration Statement is no longer effective, subject to specified exceptions, any party to the Stockholders' Agreement has the right to demand that we file an unlimited number of registration statements on Form S-3 covering the offering and sale of all or at least \$1,000,000 worth of its Registrable Securities.

Piggyback Registration Rights

All parties to the Stockholders' Agreement have piggyback registration rights. Under these provisions, if we register any securities for public sale, other than pursuant to a registration statement on Form S-4, Form S-8 or Form S-1 (only in connection with an initial public offering), these stockholders will have the right to include their shares in the registration statement, subject to customary exceptions. The underwriters of any underwritten offering will have the right to limit the number of shares having registration rights to be included in the registration statement.

Expenses of Registration

We are responsible for paying all registration expenses, other than underwriting discounts and commissions, related to any demand or piggyback registration.

DESCRIPTION OF CAPITAL STOCK

The following description of our capital stock being registered herein is a summary only and is qualified in its entirety by reference to our Certificate of Designations, Certificate of Incorporation, By-Laws, and the Stockholders' Agreement which are included as Exhibits 3.1, 3.4, 3.5 and 4.1, respectively, of this Registration Statement.

General

As of the date of this prospectus we have authorized capital of 110,000,000 shares, of which 100,000,000 are designated as Common Stock, and 10,000,000 shares are Preferred Stock, of which 1,000,000 are currently designated as Series A-1 Preferred Stock, 983,213 are currently designated as Series A-2 Preferred Stock, 142,230 are currently designated as Series A-3 Preferred Stock, 4,000 are currently designated as Series A-4 Preferred Stock, 7,000 are currently designated as Series A-5 Preferred Stock, and 800,000 are currently designated as Series A-6 Preferred Stock. As of the date of this prospectus we have outstanding 555,594 shares of Common Stock and 1,549,130 shares of Preferred Stock, of which 413,254 shares are Series A-1 Stock; 983,208 shares are Series A-2 Stock; 142,227 shares are Series A-3 Stock; 3,998 shares are Series A-4 Stock; and 6,443 shares are Series A-5 Stock, such outstanding Common Stock and Preferred Stock are held by 59 holders of record. Additionally, we have outstanding three preferred stock purchase warrants (the "Preferred Stock Purchase Warrants") that entitle the holders to purchase an aggregate of 3,888 shares of Series A-1 Stock at \$81.42 per share and one common stock purchase warrant (the "Common Stock Purchase Warrant") that entitles the holder to purchase 266 shares of Common Stock at \$15.00 per share.

Additionally, there are 1,319,682 options issued pursuant to the Incentive Plan that are exercisable into an aggregate of 1,319,682 shares of Common Stock. A total of 2,015,666 shares of Common Stock are available under the Incentive Plan. We plan to file a Form S-8 with the SEC in order to register the 2,015,666 available under the Incentive Plan.

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Dividend Rights

Other than with respect to the payment of the Series A-5 Accruing Dividend (as defined in the Certificate of Designations) which ranks senior in payment to any other dividends payable on any and all series of Preferred Stock and upon Liquidation (as defined in Section 4(b) of the Certificate of Designations) or an Event of Sale (as defined in Section 5 of Certificate of Designations), each share of Series A-1 Stock ranks equally with each other share of Series A-1 Stock and senior to all shares of Series A-2 Stock, Series A-3 Stock, Series A-4 Stock, Series A-5 Stock and Series A-6 Stock and senior to all shares of Common Stock and all other classes or series of stock not currently authorized by the Certificate of Designations, except as otherwise approved by the affirmative vote or consent of the holders of shares of Series A-1 Stock, Series A-2 Stock and/or Series A-3 Stock representing at least 70% of the voting power of the shares of Series A-1 Stock, Series A-2 Stock and Series A-3 Stock then outstanding (the "Senior Majority"); each share of Series A-2 Stock ranks equally with each other share of Series A-2 Stock and senior to all shares of Series A-3 Stock, Series A-4 Stock, Series A-5 Stock and Series A-6 Stock and senior to all shares of Common Stock and all other classes or series of stock not currently authorized by the Certificate of Designations, except as otherwise approved by the affirmative vote or consent of the Senior Majority; each share of Series A-3 Stock, Series A-5 Stock and Series A-6 Stock ranks equally with each other share of Series A-3 Stock, Series A-5 and Series A-6 Stock and senior to all shares of Series A-4 Stock and shares of Common Stock and all other classes or series of stock not currently authorized by the Certificate of Designations, except as otherwise approved by the affirmative vote or consent of the Senior Majority. Each share of Series A-4 Stock, ranks equally with each other share of Series A-4 Stock and senior to all shares of Common Stock and all other classes or series of stock not currently authorized by the Certificate of Designations, except as otherwise approved by the affirmative vote or consent of the Senior Majority.

Terms of Conversion

Each share of Preferred Stock is convertible into shares of Common Stock at any time at the election of the holder thereof at the then prevailing conversion price as determined in our Certificate of Incorporation. Each share of Preferred Stock is initially convertible into ten shares of Common Stock. In addition, pursuant to our Certificate of Incorporation, the Preferred Stock shall convert into Common Stock upon (i) an election to convert made by the Senior Majority or (ii) the listing of the Common Stock on a national securities exchange.

Redemption and Liquidation Rights

Shares of our Preferred Stock outstanding at the time of a sale or liquidation of the Company will have a right to receive proceeds, if any, from any such transactions, before any payments are made to holders of our Common Stock, except as otherwise approved by the affirmative vote or consent of the Senior Majority. In the event that there are not enough proceeds to satisfy the entire liquidation preference of our Preferred Stock, holders of our Common Stock will receive nothing in respect of their equity holdings in the Company.

Voting Rights

The Preferred Stock entitles each holder thereof to one vote for each share of Common Stock into which such share of Preferred Stock is convertible, voting together with the Common Stock as a single class, except with respect to certain amendments to the Certificate of Designations, authorization or issuance of any new class or series of senior or parity capital stock (subject to certain exceptions), any liquidation, dissolution or winding up of the Company which require the consent of the Senior Majority.

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Classification of Board of Directors

Pursuant to the Stockholders' Agreement and our Certificate of Incorporation:

(i) for so long as any shares of Series A-1 Stock are outstanding, the holders of a majority of the shares of Series A-1 Stock outstanding, voting as a separate class, shall have the right to elect two members of the Board of Directors;

(ii) The G3 Holders voting as a separate class shall have the right to elect one member of the Board of Directors of the Corporation by majority vote of the shares of Series A-1 Stock held by them; provided, however, that in order to be eligible to vote or consent with respect to the election of such member of the Board of Directors, a G3 Holder together with members of such G3 Holders' Group must hold greater than (20%) of the shares of Series A-1 Stock purchased under the Series A-1 Stock Purchase Agreement by such G3 Holder and the members of such G3 Holders' Group; and

(iii) MPM Capital L.P., voting as a separate class, shall have the right to elect one member of the Board of Directors of the Corporation by majority vote of the shares of Series A-1 Stock held by MPM Capital L.P.; provided that such member of the Board of Directors shall be an individual with particular expertise in the development of pharmaceutical products; and, provided, further, that in order to be eligible to vote or consent with respect to the election of such member of the Board of Directors, MPM Capital L.P. together with members of the MPM Group (as defined in the Stockholders' Agreement) must hold greater than twenty percent (20%) of the shares of Series A-1 Stock purchased under the Series A-1 Stock Purchase Agreement by MPM Capital L.P. and the members of the MPM Group.

The balance of the board is elected by all of the stockholders acting as a single class and voting on an as converted basis.

Preemption Rights

Under the terms of the Stockholders' Agreement, we are obligated to offer the holders of the Series A-1 Stock, the Series A-2 Stock and the Series A-3 Stock a right of first refusal with respect to future equity issuances, subject to customary exceptions.

Indemnification

The Stockholders' Agreement contains customary cross-indemnification provisions, pursuant to which we are obligated to indemnify the selling stockholders in the event of material misstatements or omissions in the registration statement attributable to us, and the selling stockholders are obligated to indemnify us for material misstatements or omissions attributable to them.

Restrictions on Alienability

Pursuant to the Stockholders' Agreement, for a period of 180 days from May 17, 2011, all other parties subject to the Stockholders' Agreement have agreed, subject to certain exceptions, not to sell, assign, transfer, make a short sale of, loan, grant any option for the purchase of, or exercise registration rights with respect to any shares of Common Stock or other securities convertible into or exercisable for Common Stock, other than to a member of such Stockholders' Group (as defined in the Stockholders' Agreement). Notwithstanding the foregoing, on the 30th, 60th, 90th and 180th day after May 17, 2011, these restrictions shall cease to apply to 5%, 15%, 30% and 50%, respectively, of shares of Common Stock issued or issuable upon conversion of the Series A-1 Stock held or issuable to such stockholder at such time. These restrictions do not apply to block trades of 10,000 shares or more of Common Stock issued upon the conversion of Series A-1 Stock or, if, on or at any time after any days indicated in the previous sentence, the average of the closing bid and ask price of our Common

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Stock if quoted on any electronic quotation system, including but not limited to the OTC:BB for the five trading days ending on such date, or the average last-sale price of our Common Stock if listed on a national securities exchange for the five trading days ending on such date, is greater than \$16.29 per share the percentages set forth in the previous sentence shall be doubled.

Anti-dilution Protection

All shares of Preferred Stock shall have weighted-average anti-dilution protection (based on the initial conversion purchase price of \$8.142 per share) and anti-dilution protection upon the occurrence of any subdivision or combination of the Common Stock, stock dividend and other distribution, reorganization, reclassification or similar event affecting the Common Stock, subject to certain exceptions.

Share Purchase Warrants

The exercise price and number of shares of Common Stock and Preferred Stock issuable on exercise of the Common Stock Purchase Warrant and the Preferred Stock Purchase Warrants, respectively, may be adjusted in upon certain events that result in a change of the number and/or class of the securities issuable upon exercise or conversion of the applicable Warrants. The Common Stock Purchase Warrant is not subject to adjustment for issuances of Common Stock at a price below the exercise price. The Preferred Stock Purchase Warrants are subject to adjustment for issuances Preferred Stock below the exercise price. The exercise period of each warrant expires ten years from the date such warrant was issued.

**DISCLOSURE OF COMMISSION POSITION ON
INDEMNIFICATION FOR SECURITIES ACT LIABILITIES**

Pursuant to our Certificate of Incorporation and By-Laws, we may indemnify an officer or director who is made a party to any proceeding, because of his position as such, to the fullest extent authorized by Delaware General Corporation Law, as the same exists or may hereafter be amended. In certain cases, we may advance expenses incurred in defending any such proceeding.

To the extent that indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling our company pursuant to the foregoing provisions, we have been informed that, in the opinion of the Securities and Exchange Commission, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable. If a claim for indemnification against such liabilities (other than the payment by us of expenses incurred or paid by a director, officer or controlling person of our company in the successful defense of any action, suit or proceeding) is asserted by any of our directors, officers or controlling persons in connection with the securities being registered, we will, unless in the opinion of our counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and will be governed by the final adjudication of that issue.

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ABOUT THIS PROSPECTUS

This prospectus is not an offer or solicitation in respect to these securities in any jurisdiction in which such offer or solicitation would be unlawful. This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission. The registration statement that contains this prospectus (including the exhibits to the registration statement) contains additional information about our company and the securities offered under this prospectus. That registration statement can be read at the SEC web site or at the SEC's offices mentioned under the heading "Where You Can Find More Information." We have not authorized anyone else to provide you with different information or additional information. You should not assume that the information in this prospectus, or any supplement or amendment to this prospectus, is accurate at any date other than the date indicated on the cover page of such documents.

WHERE YOU CAN FIND MORE INFORMATION

Federal securities law requires us to file information with the SEC concerning our business and operations. Accordingly, we file annual, quarterly, and special reports, proxy statements and other information with the SEC. You can inspect and copy this information at the Public Reference Facility maintained by the SEC at 100F Street, N.E., Washington, DC 20549. You can receive additional information about the operation of the SEC's Public Reference Facilities by calling the SEC at 1-800-SEC-0330. The SEC also maintains a web site at <http://www.sec.gov> that contains reports, proxy and information statements and other information regarding companies that, like us, file information electronically with the SEC.

VALIDITY OF COMMON STOCK

Legal matters in connection with the validity of the shares offered by this prospectus will be passed upon by Bingham McCutchen LLP, Boston, Massachusetts.

EXPERTS

The financial statements of Target at December 31, 2010 and 2009, appearing in this Prospectus and Registration Statement have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon appearing elsewhere herein, and are included in reliance upon such report, given on the authority of such firm as experts in accounting and auditing.

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FINANCIAL STATEMENTS

Radius Health, Inc.

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<u>Statements of Convertible Preferred Stock, Redeemable Convertible Preferred Stock and Stockholders' Deficit for the years ended December 31, 2009 and 2010 and the three-month period ended March 31, 2011 (Unaudited)</u>	<u>F-5</u>
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Report of Independent Registered Public Accounting Firm

The Board of Directors
Radius Health, Inc.

We have audited the accompanying balance sheets of Radius Health, Inc. (the Company) as of December 31, 2009 and 2010, and the related statements of operations, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit, and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Radius Health, Inc. at December 31, 2009 and 2010, and the results of its operations and its cash flows for the years then ended, in conformity with U.S. generally accepted accounting principles.

Boston, Massachusetts

/s/ Ernst & Young LLP

May 11, 2011, except for the second and third paragraphs of Note 14 as to which the date is May 18, 2011

Table of Contents**Radius Health, Inc.****Balance Sheets**

	December 31		March 31
	2009	2010	2011
			(Unaudited)
Assets			
Current assets:			
Cash and cash equivalents	\$ 7,896,139	\$ 10,581,601	\$ 10,224,439
Marketable securities	23,825,758	7,969,111	1,849,854
Prepaid expenses and other current assets	148,872	282,438	321,649
Total current assets	31,870,769	18,833,150	12,395,942
Property and equipment, net	134,955	30,552	24,810
Other assets	78,269	105,730	89,561
Total assets	\$ 32,083,993	\$ 18,969,432	\$ 12,510,313
Liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit			
Current liabilities:			
Accounts payable	\$ 708,370	\$ 614,180	\$ 193,884
Accrued expenses	1,280,229	2,771,310	1,696,464
Total current liabilities	1,988,599	3,385,490	1,890,348
Commitments and contingencies (<i>Note 7</i>)			
Series A Junior Convertible Preferred Stock, \$.01 par value; 63,000 shares authorized, 61,664 shares issued and outstanding (liquidation value \$925,000)	92,500	92,500	92,500
Series B Redeemable Convertible Preferred Stock, \$.01 par value; 1,600,000 shares authorized, 1,599,997 shares issued and outstanding at liquidation value	35,470,060	38,309,495	39,076,142
Series C Redeemable Convertible Preferred Stock, \$.01 par value; 10,146,629 shares authorized, issued and outstanding at liquidation value	96,130,844	105,434,076	107,543,196
Stockholders' deficit:			
Common stock, \$.01 par value; 34,859,964 shares authorized, 320,424, 322,807 and 322,807 shares issued and outstanding at December 31, 2009, December 31, 2010 and March 31, 2011, respectively	3,204	3,228	3,228
Accumulated other comprehensive income (loss)	15,111	(3,117)	266
Accumulated deficit	(101,616,325)	(128,252,240)	(136,095,367)
Total stockholders' deficit	(101,598,010)	(128,252,129)	(136,091,873)
Total liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit	\$ 32,083,993	\$ 18,969,432	\$ 12,510,313

See accompanying notes.

Table of Contents**Radius Health, Inc.****Statements of Operations**

	Year Ended December 31		Three-Month Period Ended March 31	
	2009	2010	2010	2011
			(Unaudited)	
Revenue:				
Option fee revenue	\$ 1,615,731	\$	\$	\$
Operating expenses:				
Research and development	14,519,454	11,691,906	2,490,655	4,136,447
General and administrative	2,668,108	3,629,475	643,889	897,247
Restructuring		217,200		
Loss from operations	(15,571,831)	(15,538,581)	3,134,544	5,033,694
Interest income	489,364	84,915	27,090	13,990
Other income		882,687		9,778
Other expense	(6,530)	(58,792)	(162)	
Interest expense	(30)			
Net loss	(15,089,027)	(14,629,771)	(3,107,616)	(5,009,926)
Accretion of preferred stock	(11,405,398)	(12,142,667)	(3,046,271)	(2,875,767)
Net loss attributable to common stockholders	\$ (26,494,425)	\$ (26,772,438)	\$ (6,153,887)	\$ (7,885,693)
Net loss per share attributable to common stockholders:				
Basic and diluted	\$ (82.68)	\$ (83.42)	\$ (19.21)	\$ (24.43)
Weighted average shares outstanding, basic and diluted	320,437	320,920	320,424	322,807

See accompanying notes.

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Radius Health, Inc.

Statements of Convertible Preferred Stock, Redeemable Convertible Preferred Stock and Stockholders' Deficit

	Series A Junior Convertible Preferred Stock		Series B Redeemable Convertible Preferred Stock		Series C Redeemable Convertible Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total Stockholders' Deficit
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount				
Balance at December 31, 2008	61,664	\$92,500	1,599,997	\$32,843,074	10,146,629	\$ 87,352,432	320,424	\$ 3,204	\$ 8,009,726	\$ 247,488	\$ (83,256,405)	\$ (74,995,987)
Net loss											(15,089,027)	(15,089,027)
Unrealized loss on marketable securities										(232,377)		(232,377)
Total comprehensive loss												(15,321,404)
Stock-based compensation expense									124,779			124,779
Accretion of Preferred Stock issuance costs						181,162			(181,162)			(181,162)
Accretion of Preferred Stock to redemption value				2,626,986		7,223,012			(7,953,343)		(1,896,655)	(9,849,998)
Accretion of Preferred Stock investor rights/obligations						1,374,238					(1,374,238)	(1,374,238)
Balance at December 31, 2009	61,664	92,500	1,599,997	35,470,060	10,146,629	96,130,844	320,424	3,204		15,111	(101,616,325)	(101,598,010)
Net loss											(14,629,771)	(14,629,771)
Unrealized loss on marketable securities										(18,228)		(18,228)
Total comprehensive loss												(14,647,999)
Issuance of Common Stock							2,383	24	2,121			2,145
Stock-based compensation expense									134,402			134,402
Accretion of Preferred Stock issuance costs						173,915			(136,523)		(37,392)	(173,915)
Accretion of Preferred Stock to redemption value				2,839,435		7,811,555					(10,650,990)	(10,650,990)
Accretion of Preferred Stock investor rights/obligations						1,317,762					(1,317,762)	(1,317,762)

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Balance at December 31, 2010	61,664	92,500	1,599,997	38,309,495	10,146,629	105,434,076	322,807	3,228	(3,117)	(128,252,240)	(128,252,129)	
Net loss (unaudited)										(5,009,926)	(5,009,926)	
Unrealized gain on marketable securities									3,383		3,383	
Total comprehensive loss (unaudited)											(5,006,543)	
Stock-based compensation expense (unaudited)								42,566			42,566	
Accretion of Preferred Stock to redemption value (unaudited)				766,647		2,109,120		(42,566)		(2,833,201)	(2,875,767)	
Balance at March 31, 2011 (unaudited)	61,664	\$92,500	1,599,997	\$39,076,142	10,146,629	\$107,543,196	322,807	\$3,228	\$	266	\$(136,095,367)	\$(136,091,873)

See accompanying notes.

Table of Contents**Radius Health, Inc.****Statements of Cash Flows**

	Year Ended December 31		Three-Month Period Ended March 31	
	2009	2010	2010	2011
			(Unaudited)	
Operating activities				
Net loss	\$ (15,089,027)	\$ (14,629,771)	\$ (3,107,616)	\$ (5,009,926)
Adjustments to reconcile net loss to net cash used in operating activities:				
Depreciation and amortization	136,303	69,540	20,577	9,262
Gain on fixed asset disposal		(99,548)		
Amortization of premium (accretion of discount) on short-term investments, net	97,791	303,385	117,333	21,954
Stock-based compensation expense	124,779	134,402	37,674	42,566
Changes in operating assets and liabilities:				
Prepaid expenses and other current assets	95,218	(133,566)	(24,689)	(39,211)
Other long-term assets		(27,461)		16,169
Accounts payable	(1,121,250)	(94,190)	(509,090)	(420,296)
Accrued expenses	(921,569)	1,491,081	(764,167)	(1,074,846)
Deferred revenue	(1,615,731)			
Net cash used in operating activities	(18,293,486)	(12,986,128)	(4,229,978)	(6,454,328)
Investing activities				
Purchases of property and equipment	(31,811)	(14,769)	(14,768)	(3,520)
Proceeds from sale of equipment		149,180		
Purchases of marketable securities	(36,034,919)	(24,119,966)	(7,788,295)	(899,314)
Sales and maturities of marketable securities	53,690,000	39,655,000	10,655,000	7,000,000
Net cash provided by investing activities	17,623,270	15,669,445	2,851,937	6,097,166
Financing activities				
Proceeds from the sale of common stock		2,145		
Payments on equipment financing	(8,075)			
Net cash (used in) provided by financing activities	(8,075)	2,145		
Net (decrease) increase in cash and cash equivalents	(678,291)	2,685,462	(1,378,041)	(357,162)
Cash and cash equivalents at beginning of year	8,574,430	7,896,139	7,896,139	10,581,601
Cash and cash equivalents at end of year	\$ 7,896,139	\$ 10,581,601	\$ 6,518,098	\$ 10,224,439
Noncash financing activities				
Accretion of preferred stock issuance costs	\$ 181,162	\$ 173,915	\$ 44,670	\$
Accretion of dividends on preferred stock	\$ 9,849,998	\$ 10,650,990	\$ 2,662,747	\$ 2,875,767
Accretion of preferred stock investor rights/obligations	\$ 1,374,238	\$ 1,317,762	\$ 338,854	\$

See accompanying notes.

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Radius Health, Inc.

Notes to Financial Statements

1. Nature of Business

Radius Health, Inc. (the Company or Radius) is a pharmaceutical company focused on acquiring and developing new therapeutics for osteoporosis and women's health. The Company's lead product candidate is BA058 Injection which began a pivotal, multinational Phase 3 clinical study for the treatment of osteoporosis in April 2011. In addition, the Company is developing the BA058 Microneedle Patch, a transdermal form of BA058 that is based on a microneedle technology from 3M Drug Delivery Systems (3M) that commenced a Phase 1b clinical study in December 2010. In addition to BA058, the Company is currently conducting one other clinical and one other preclinical program. Since inception, the Company has devoted its efforts principally to research and development, licensing of intellectual property, business development activities, and raising capital.

The Company is subject to the risks associated with emerging, technology-oriented companies with a limited operating history, including dependence on key individuals, a developing business model, market acceptance of the Company's product candidates, competitive product candidates, and the continued ability to obtain adequate financing to fund the Company's future operations. Accumulated deficit for the period from November 14, 2003 (date of inception) through December 31, 2010 is \$128,252,240 and through March 31, 2011 is \$136,095,367 (unaudited). The Company has incurred, and expects to continue to incur, additional losses for the foreseeable future. The Company intends to obtain additional equity and/or debt financing in order to meet working capital requirements and to further develop its product candidates. Subsequent to December 31, 2010, the Company executed an agreement with existing and new investors under which it received an irrevocable, legally binding commitment for proceeds of \$64.3 million from the issuance of shares of Series A-1 convertible preferred stock in three closings which will take place in 2011. The proceeds from each closing are generally due to the Company upon written request. The Company intends to request the proceeds from such closings in 2011. The Company believes that its existing cash, cash equivalents and marketable securities and the proceeds available from the irrevocable legally binding commitment described above and in Note 14, are sufficient to finance its operations, including its 2011 obligations under the Nordic agreement described in Note 12, into 2012.

Unaudited Interim Financial Statements

The accompanying unaudited March 31, 2011 balance sheet, statements of operations and cash flows for the three month periods ended March 31, 2010 and 2011, and the statements of convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit for the three month period ended March 31, 2011 and the related interim information contained within the notes to the financial statements have been prepared in accordance with the rules and regulations of the Securities and Exchange Commission (SEC) for interim financial information. Accordingly, they do not include all of the information and the notes required by accounting principles generally accepted in the United States of America for complete financial statements. In the opinion of management, the unaudited interim financial statements reflect all adjustments, consisting of normal and recurring adjustments, necessary for the fair presentation of the Company's financial position at March 31, 2011 and results of its operations and its cash flows for the three month periods ended March 31, 2010 and 2011. The results for the three month periods ended March 31, 2011 are not necessarily indicative of future results.

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Radius Health, Inc.

Notes to Financial Statements (Continued)

2. Summary of Significant Accounting Policies

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires the Company's management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

Cash Equivalents

The Company considers all highly liquid investment instruments with an original maturity when purchased of three months or less to be cash equivalents. Cash equivalents at December 31, 2009 and 2010 and March 31, 2011 comprise money market funds, corporate debt securities, asset-backed commercial paper, and debt securities held by government sponsored entities.

Marketable Securities

All investment instruments with an original maturity date, when purchased, in excess of three months have been classified as current marketable securities. These marketable securities are classified as available-for-sale and such securities are carried at fair value. Unrealized gains and losses, if any, are included within other comprehensive income (loss) within stockholders' deficit. The amortized cost of debt securities in this category is adjusted for amortization of premiums and accretion of discounts to maturity. Such amortization is included in interest income. Realized gains and losses on available-for-sale securities are included in interest income. The cost of securities sold is based on the specific identification method. The Company periodically reviews the portfolio of securities to determine whether an other-than-temporary impairment has occurred. No such losses have occurred to date. There were no realized gains or losses on the sale of securities for the years ended December 31, 2009 and 2010 and the three month periods ended March 31, 2010 and 2011 (unaudited).

Fair Value Measurements

The fair value hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets (Level 1), and the lowest priority to unobservable inputs (Level 3). The Company's financial assets are classified within the fair value hierarchy based on the lowest level of input that is significant to the fair value measurement. The three levels of the fair value hierarchy, and its applicability to the Company's financial assets, are described below:

Level 1 Unadjusted quoted prices in active markets that are accessible at the measurement date of identical, unrestricted assets.

Level 2 Quoted prices for similar assets, or inputs that are observable, either directly or indirectly, for substantially the full term through corroboration with observable market data. Level 2 includes investments valued at quoted prices adjusted for legal or contractual restrictions specific to the security.

Level 3 Pricing inputs are unobservable for the asset, that is, inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset. Level 3 includes private investments that are supported by little or no market activity.

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****2. Summary of Significant Accounting Policies (Continued)**

All of the Company's financial assets, comprising cash equivalents and marketable securities, are classified as Level 1 and Level 2 assets as of December 31, 2009 and 2010 and March 31, 2011 (unaudited) (Note 4).

Fair Value of Financial Instruments

The carrying amounts of the Company's financial instruments, which include cash equivalents, marketable securities, accounts payable and accrued expenses, approximate their estimated fair values as of December 31, 2009 and 2010 and March 31, 2011 (unaudited).

Concentrations of Credit Risk and Off-Balance-Sheet Risk

Financial instruments that potentially subject the Company to credit risk primarily consist of cash and cash equivalents and available-for-sale marketable securities. The Company maintains its cash and cash equivalents and marketable securities with financial institutions. The Company is currently investing its excess cash in money market funds and other securities, and the management of these investments is not discretionary on the part of the financial institution. The Company's credit exposure on its marketable securities is limited by its diversification among United States government and agency debt securities. The Company has no significant off-balance-sheet risks such as foreign exchange contracts, option contracts, or other hedging arrangements.

Property and Equipment

Property and equipment is stated at cost and depreciated using the straight-line method over the estimated useful lives of the respective assets:

Furniture	3 years
Equipment	5 years
Software	3 years
Leasehold improvements	Shorter of lease or useful life of the asset

Revenue Recognition

To date, all of the Company's revenue has been generated under an option agreement. The Company recognized revenue ratably over the option period.

Research and Development

The Company accounts for research and development costs by expensing such costs to operations as incurred. Research and development costs primarily consist of personnel costs, outsourced research activities, laboratory supplies, and license fees.

Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are deferred and capitalized. The capitalized amounts will be expensed as the related goods are delivered or the services are performed. If expectations change such that the Company does not expect it will need the goods to be delivered or the services to be rendered, capitalized nonrefundable advance payments would be charged to expense.

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Radius Health, Inc.

Notes to Financial Statements (Continued)

2. Summary of Significant Accounting Policies (Continued)

Licensing Agreements

Costs associated with licenses of technology are expensed as incurred, and are included in research and development expenses.

Impairment of Long-Lived Assets

When impairment indicators exist, the Company's management evaluates long-lived assets for potential impairment. Potential impairment is assessed when there is evidence that events or changes in circumstances have occurred that indicate that the carrying amount of a long-lived asset may not be recovered. Recoverability of these assets is assessed based on undiscounted expected future cash flows from the assets, considering a number of factors, including past operating results, budgets and economic projections, market trends, and product development cycles. An impairment in the carrying value of each asset is assessed when the undiscounted expected future cash flows derived from the asset are less than its carrying value.

Impairments, if any, are recognized in earnings. An impairment loss would be recognized in an amount equal to the excess of the carrying amount over the undiscounted expected future cash flows. No impairment charges have been recognized since inception.

Segment Information

Operating segments are defined as components of an enterprise engaging of business activities for which discrete financial information is available and regularly reviewed by the chief operating decision maker in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business in one operating segment and the Company operates in one geographic segment.

Income Taxes

The liability method is used in accounting for income taxes. Deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities, and are measured using the enacted tax rates in effect when the differences are expected to reverse. Deferred tax assets are reduced by a valuation allowance to reflect the uncertainty associated with their ultimate realization.

In July 2006, the FASB issued ASC No. 740-10, *Accounting for Uncertainty in Income Taxes*. ASC No.740-10 establishes a minimum threshold for financial statement recognition of the benefit of positions taken, or expected to be taken, in filing tax returns. ASC No. 740-10 requires the evaluation of tax positions taken, or expected to be taken, in the course of preparing the Company's tax returns to determine whether the tax positions are "more likely than not" of being sustained by the applicable tax authority. Tax positions not deemed to meet the more-likely-than-not threshold would be recorded as a tax expense. The Company's adoption of ASC No. 740-10 in 2009 did not have a material effect on the Company's financial statements.

Net Loss Per Common Share

Basic net loss per share is calculated by dividing the net loss attributable to common stockholders by the weighted-average number of common shares outstanding during the period, without

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****2. Summary of Significant Accounting Policies (Continued)**

consideration for common stock equivalents. Diluted net loss per share is computed by dividing the net loss attributable to common stockholders by the weighted-average number of common share equivalents outstanding for the period determined using the treasury-stock method. For purposes of this calculation, preferred stock, stock options and warrants are considered to be common stock equivalents and are only included in the calculation of diluted net loss per share when their effect is dilutive.

Redeemable Convertible Preferred Stock

The carrying value of the Company's Series B and Series C redeemable convertible preferred stock is adjusted by periodic accretions such that the carrying value will equal the redemption amount at the redemption date. The carrying value is also adjusted to reflect dividends that accrue quarterly on the Series B and C redeemable convertible preferred stock (Note 9).

Stock-Based Compensation

The Company recognizes the compensation cost of employee stock-based awards using the straight-line method over the requisite service period of the award. During the years ended December 31, 2009 and 2010 and the three month periods ended March 31, 2010 and 2011, the Company recorded approximately \$100,000, \$100,000, \$33,000 (unaudited) and \$22,000 (unaudited) of employee stock-based compensation expense, respectively. The Company estimates the fair value of each option award using the Black-Scholes-Merton option-pricing model. Weighted-average information and assumptions used in the option-pricing model for employee stock-based compensation are as follows. No options were granted for the three month periods ended March 31, 2010 and 2011.

	Years Ended	
	2009	2010
Expected dividend yield	0%	0%
Risk-free interest rates	2.6 - 2.7%	1.92%
Expected term (years)	6.25	6.25
Volatility	57 - 59%	58%

In calculating the estimated fair value of the Company's stock options, the Black-Scholes-Merton option-pricing model requires the consideration of the following six variables for purposes of estimating fair value:

The stock option exercise price,

The expected term of the option,

The grant date price of the Company's common stock, which is issuable upon exercise of the option, The expected volatility of the Company's common stock,

The expected dividends on the Company's common stock, and

The risk-free rate for the expected option term.

The expected term of the stock options granted represents the period of time that options granted are expected to be outstanding. For options granted prior to January 1, 2008, the expected term was

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Radius Health, Inc.

Notes to Financial Statements (Continued)

2. Summary of Significant Accounting Policies (Continued)

calculated using the "simplified" method as prescribed by the SEC's Staff Accounting Bulletin No. 107, *Share-Based Payment*. For options granted after January 1, 2008, the Company calculated the expected term using similar assumptions. The expected volatility is a measure of the amount by which the Company stock price is expected to fluctuate during the term of the options granted. The Company determines the expected volatility based on a review of the historical volatility of similar publicly held companies in the biotechnology field over a period commensurate with the option's expected term. The Company has never declared or paid any cash dividends on its common stock and does not expect to do so in the foreseeable future. Accordingly, it uses an expected dividend yield of zero. The risk-free interest rate is the implied yield available on U.S. Treasury issues with a remaining life consistent with the option's expected term on the date of grant. The Company applies an estimated forfeiture rate to current period expense to recognize compensation expense only for those awards expected to vest. The Company estimates forfeitures based upon historical data, adjusted for known trends, and will adjust the estimate of forfeitures if actual forfeitures differ or are expected to differ from such estimates. Subsequent changes in estimated forfeitures are recognized through a cumulative adjustment in the period of change and also will impact the amount of stock-based compensation expense in future periods. The forfeiture rate was estimated to be 2.4%, 2.8%, 2.4% (unaudited) and 2.8% (unaudited) for the years ended December 31, 2009 and 2010 and the three month periods ended March 31, 2010 and 2011, respectively.

Comprehensive Income (Loss)

The Company discloses all components of comprehensive income (loss) on an annual basis. Comprehensive income (loss) is defined as the change in equity of a business enterprise during a period from transactions and other events and circumstances from non-owner sources. The Company's accumulated other comprehensive income (loss) comprises unrealized gains (losses) on its available-for-sale marketable securities.

Recently Issued Accounting Standards

In July 2009, the FASB ratified the EITF No. 08-1, *Revenue Arrangements with Multiple Deliverables*. This EITF provides additional guidance and clarification of ASC 605-25, (formerly EITF 00-21) regarding an entity's sale of products or services consisting of multiple deliverables for which, under certain circumstances, revenue may be recognized separately for each deliverable. This standard is effective for the Company beginning January 1, 2011. The Company does not believe that this standard will have a material impact on its financial statements, but it could impact the Company's revenue recognition on future collaboration agreements.

The Company considers events or transactions that occur after the balance sheet date but prior to the issuance of the financial statements to provide additional evidence relative to certain estimates or to identify matters that require additional disclosure.

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****3. Net Loss Per Share**

Basic and diluted net loss per share is calculated as follows:

	Year Ended December 31		Three-Month Period Ended March 31	
	2009	2010	2010	2011
	(Unaudited)			
Numerator:				
Net loss	\$ (15,089,027)	\$ (14,629,771)	\$ (3,107,616)	\$ (5,009,926)
Accretion of preferred stock	(11,405,398)	(12,142,667)	(3,046,271)	(2,875,767)
Net loss attributable to common stockholders	(26,494,425)	(26,772,438)	(6,153,887)	(7,885,693)
Denominator:				
Weighted-average number of common shares used in net loss per share basic and diluted	320,437	320,920	320,424	322,807
Net loss per share applicable to common stockholders basic and diluted	\$ (82.68)	\$ (83.42)	\$ (19.21)	\$ (24.43)

The following potentially dilutive securities, prior to the use of the treasury stock method, have been excluded from the computation of diluted weighted-average shares outstanding, as they would be anti-dilutive:

	Year Ended December 31		Three-Month Period Ended March 31	
	2009	2010	2010	2011
	(Unaudited)			
Convertible preferred stock	11,808,290	11,808,290	11,808,290	11,808,290
Options to purchase common stock	1,216,718	1,461,865	1,216,718	1,461,865
Warrants	1,333	1,333	1,333	1,333

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Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****4. Marketable Securities**

Available-for-sale marketable securities and cash and cash equivalents consist of the following:

December 31, 2009

	Amortized Cost	Gross Unrealized		Fair Value
		Gains	Losses	
Cash and cash equivalents:				
Cash	\$ 126,967	\$	\$	\$ 126,967
Money market	7,269,172			7,269,172
Government sponsored enterprises (GSEs)	500,000			500,000
Total	\$ 7,896,139	\$	\$	\$ 7,896,139
Marketable securities:				
GSEs	\$ 16,680,298	\$ 12,922	\$	\$ 16,693,220
Corporate debt securities	3,115,338	408		3,115,746
Corporate commercial paper	1,747,754	1,424		1,749,178
US Treasury obligations	2,267,257	357		2,267,614
Total	\$ 23,810,647	\$ 15,111	\$	\$ 23,825,758

December 31, 2010

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Cash and cash equivalents:				
Cash	\$ 231,597	\$	\$	\$ 231,597
Money market	6,451,786			6,451,786
Corporate commercial paper	2,892,528			2,892,528
Corporate debt securities	1,006,105		(415)	1,005,690
Total	\$ 10,582,016	\$	\$ (415)	\$ 10,581,601
Marketable securities:				
Corporate debt securities	\$ 5,023,982	\$	\$ (3,456)	\$ 5,020,526
Corporate commercial paper	2,947,831	754		2,948,585
Total	\$ 7,971,813	\$ 754	\$ (3,456)	\$ 7,969,111

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****4. Marketable Securities (Continued)**

	March 31, 2011 (Unaudited)			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Cash and cash equivalents:				
Cash	\$ 8,974,557	\$	\$	\$ 8,974,557
Corporate commercial paper	1,249,662	220		1,249,882
Total	\$ 10,224,219	\$ 220	\$	\$ 10,224,439
Marketable securities:				
Corporate commercial paper	\$ 1,849,586	\$ 268	\$	\$ 1,849,854
Total	\$ 1,849,586	\$ 268	\$	\$ 1,849,854

There were 6 debt securities that had been in an unrealized loss position for less than 12 months at December 31, 2010. The aggregate unrealized loss on these securities was \$3,871 and the fair value was \$6,024,410. There were no (unaudited) debt securities that had been in an unrealized loss position for less than 12 months at March 31, 2011. The Company evaluated the securities for other-than-temporary impairments based on quantitative and qualitative factors. The Company considered the decline in market value for these securities to be primarily attributable to current economic conditions. The Company does not intend to sell these securities prior to their maturity and it is not more likely than not that the Company will be required to sell these securities before the recovery of their amortized costs bases, which may be at maturity.

All of the Company's marketable securities have contractual maturities of less than one year. Financial assets carried at fair value as of December 31, 2010 and 2011 and March 31, 2011 are classified in the table below in one of the three categories described in Note 2:

	December 31, 2009			
	Level 1	Level 2	Level 3	Total
Assets				
Cash and cash equivalents	\$ 7,896,139	\$	\$	\$ 7,896,139
Marketable securities:				
GSEs		16,693,220		16,693,220
Corporate debt securities		3,115,746		3,115,746
Corporate commercial paper		1,749,178		1,749,178
U.S. Treasury obligations	2,267,614			2,267,614
	\$ 10,163,753	\$ 21,558,144	\$	\$ 31,721,897

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****4. Marketable Securities (Continued)**

	December 31, 2010			
	Level 1	Level 2	Level 3	Total
Assets				
Cash and cash equivalents	\$ 10,581,601	\$	\$	\$ 10,581,601
Marketable securities:				
Corporate debt securities		5,020,526		5,020,526
Corporate commercial paper		2,948,585		2,948,585
	\$ 10,581,601	\$ 7,969,111	\$	\$ 18,550,712

	March 31, 2011			
	Level 1	Level 2	Level 3	Total
		(Unaudited)		
Assets				
Cash and cash equivalents	\$ 10,224,439	\$	\$	\$ 10,224,439
Marketable securities:				
Corporate commercial paper		1,849,854		1,849,854
	\$ 10,224,439	\$ 1,849,854	\$	\$ 12,074,293

Fair value for Level 1 is based on quoted market prices. Fair value for Level 2 is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Inputs are obtained from various sources including market participants, dealers and brokers.

5. Property and Equipment

Property and equipment consists of the following:

	Estimated Useful Life (In Years)	December 31		March 31
		2009	2010	2011
				(Unaudited)
Furniture and fixtures	5	\$ 35,602	\$ 35,602	\$ 35,602
Computer equipment and software	3	222,793	237,562	237,562
Leasehold improvements	Shorter of useful life or remaining lease term	366,939	366,939	370,459
Laboratory equipment	5	628,280		
		1,253,614	640,103	643,623
Less accumulated depreciation and amortization		(1,118,659)	(609,551)	(618,813)
		\$ 134,955	\$ 30,552	\$ 24,810

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****5. Property and Equipment (Continued)**

In September 2010, the Company disposed of and subsequently sold laboratory equipment with an original cost of \$628,280 and accumulated depreciation of \$578,648 for proceeds of \$149,180.

6. Accrued Expenses

Accrued expenses consist of the following:

	December 31		March 31
	2009	2010	2010
			(Unaudited)
Research costs	\$ 822,306	\$ 1,913,740	\$ 777,080
Payroll and employee benefits	293,787	472,967	618,131
Professional fees	82,888	242,905	222,505
Vacation	78,748	78,748	78,748
Restructuring		62,950	
Scientific advisory board fees	2,500		
Total accrued expenses	\$ 1,280,229	\$ 2,771,310	\$ 1,696,464

7. Commitments

On August 28, 2007, the Company signed a 24-month sublease agreement for office and laboratory space in Cambridge, Massachusetts. The sublease, which commenced on November 1, 2007 and contains no escalating rental payments, is charged to rent expense ratably over the lease period. On March 13, 2009, the Company signed a 24-month extension on the sublease through October 31, 2011. On January 14, 2011, the Company signed an agreement to terminate this sublease effective February 28, 2011.

As of December 31, 2010, remaining minimum lease payments per the termination agreement are:

2011	\$ 62,950
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Rent expense was \$629,496, \$535,071, \$157,374 (unaudited) and \$28,907 (unaudited), for the years ended December 31, 2009 and 2010 and the three month periods ended March 31, 2010 and 2011, respectively.

In September 2010, the Company recorded restructuring charges of \$217,200 related to lease termination costs associated with vacating its laboratory space. The restructuring liability is included in accrued expenses in the balance sheet. All remaining payments were made by February 28, 2011.

The following table displays the restructuring activity and liability balances:

Balance at December 31, 2009	\$
Charges	217,200
Payments	(154,250)
Balance at December 31, 2010	\$ 62,950
Payments (unaudited)	\$ (62,950)
Balance at March 31, 2011 (unaudited)	\$

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Radius Health, Inc.

Notes to Financial Statements (Continued)

7. Commitments (Continued)

On January 14, 2011, the Company signed a sublease agreement for office space in Cambridge, Massachusetts that expires on July 31, 2011. Monthly rental payments under this sublease are \$8,981 and the Company moved into the new space in February 2011.

8. Loan and Security Agreement

In connection with a Loan and Security Agreement executed in 2004, the Company issued, in two separate allotments to the lender, warrants for the purchase of an aggregate of 20,000 shares of Series A Junior Convertible Preferred Stock at \$1.00 per share. The warrants were 100% vested as of the grant date and expire in 2014. The Company valued the warrants using the Black-Scholes method and determined the fair value of the warrants to be approximately \$40,000, which was recorded as a debt discount and was amortized to interest expense over the term of the Loan and Security Agreement, being 42 months. The debt discount was fully amortized as of December 31, 2007. The change in fair value of the warrants was not material to the financial statements for the years ended December 31, 2010 and 2011 and the three month periods ended March 31, 2010 and 2011 (unaudited).

9. Convertible Preferred Stock and Redeemable Convertible Preferred Stock

On November 14, 2003, the Company issued 61,664 shares of Series A Junior Convertible Preferred Stock (Series A Preferred Stock).

On November 14, 2003, the Company issued 533,333 shares of Series B Redeemable Convertible Preferred Stock (Series B Preferred Stock) in the Stage I closing, on December 31, 2004, the Company issued 533,332 shares of Series B Preferred Stock, in the Stage II closing, and on December 31, 2005, the Company issued an additional 533,332 shares of Series B Preferred Stock, in the Stage III closing, under the Series B Convertible Redeemable Preferred Stock Purchase Agreement (the Series B Agreement) at a purchase price of \$15.00 per share, resulting in net proceeds of \$7,831,174, \$7,967,346, and \$7,976,675, respectively.

On December 15, 2006, the Company issued 2,193,486 shares of Series C Redeemable Convertible Preferred Stock, in the Stage I closing under the Series C Convertible Redeemable Preferred Stock Purchase Agreement (the Series C Agreement) at a purchase price of \$ 8.14 per share, resulting in net proceeds of \$17,633,303. On February 23, 2007, the Company issued 1,406,943 shares of Series C Redeemable Convertible Preferred Stock, in an additional Stage I closing, and on August 17, 2007, the Company issued an additional 1,228,284 shares of Series C Preferred Stock, in an additional interim closing, under the Series C Agreement at a purchase price of \$8.14 per share, resulting in net proceeds of \$21,397,084 (net of issuance costs of \$57,461).

The Series C Preferred Stock Stage I investors also agreed, subject to the attainment of certain milestones, to purchase additional shares of Series C Preferred Stock. The price for the subsequent purchases was fixed at \$ 8.14. This right to purchase the Series C Preferred Stock (Investor Right/Obligation) represented a free-standing financial instrument, which was recorded at its fair value as a short-term liability at December 31, 2006 and 2007 in accordance with ASC 480-10 (formerly SFAS No. 150, *Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity*).

On March 28, 2008, the Company issued 3,471,849 shares of Series C Preferred Stock, in a Stage II closing, at a purchase price of \$ 8.14 per share, resulting in net proceeds of \$28,255,131 (net of issuance costs of \$10,713). This financing settled the Investor Right/Obligation noted above, and,

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Radius Health, Inc.

Notes to Financial Statements (Continued)

9. Convertible Preferred Stock and Redeemable Convertible Preferred Stock (Continued)

accordingly, the liability for such was derecognized and recorded as additional paid-in capital. In accordance with ASC 480-10, the Company calculated the fair value of the obligation at the date of the attainment of the milestones to be approximately \$7.1 million, which was recorded as additional paid-in capital upon the subsequent closing.

On November 14, 2008, the Company issued 1,846,067 shares of Series C Preferred Stock to existing investors, in a Stage III closing, at a purchase price of \$8.14 per share, resulting in net proceeds of \$14,810,485 (net of issuance costs of \$219,154).

The rights, preferences, and privileges of the Series A Preferred Stock, Series B Preferred Stock, and Series C Preferred Stock (collectively, the Preferred Stock) are as follows:

Conversion

Each Preferred stockholder has the right, at their option at any time, to convert any such shares of Preferred Stock into such number of fully paid shares as is determined by dividing the original purchase price by the conversion price. The conversion price of the Preferred Stock as of December 31, 2009 and 2010 and March 21, 2011 (unaudited) was \$8.14 and \$15.00 per share for Series C Preferred Stock and for Series B and A Preferred Stock, respectively, which in each case represents a 1 for 1 conversion ratio to common stock.

Redemption

At the request of holders of 68% in voting power of the shares of Series B and Series C Preferred Stock then outstanding, made at any time on or after the fourth anniversary of the original Series C Preferred Stock issuance date, the Company will be required to redeem all of the outstanding shares of Series B and Series C Preferred Stock at a redemption price equal to the original Series B or Series C Preferred Stock purchase price of \$15.00 and \$8.14, respectively, plus any declared or accrued but unpaid dividends. Dividends accrue at 8% per annum, compounding annually, commencing on the date of issuance of the Series B and C Preferred Stock, respectively.

If the Company, at any time, breaches any of its representations, warranties, covenants, and/or agreements set forth in the Stockholders' Agreements between the Company and the Series B and Series C Preferred Stockholders specified in those agreements, holders of 68% of the voting power of the Series B and Series C Preferred Stock may elect, at their sole discretion, if the breach is not cured within 60 days, to accelerate the maturity of the rights of all the Series B and Series C Preferred Stockholders and cause the immediate redemption of all the shares of Series B and Series C Preferred Stock.

The Series A Preferred Stock is not redeemable.

Dividends

Following payment in full of required dividends to the holders of Series C Stock and Series B Stock, Series A Preferred Stockholders are entitled to receive dividends on shares of Series A Preferred Stock, when, if and as declared by the Board of Directors at a rate to be determined by the Board of Directors.

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Radius Health, Inc.

Notes to Financial Statements (Continued)

9. Convertible Preferred Stock and Redeemable Convertible Preferred Stock (Continued)

Following payment in full of required dividends to the holders of Series C Stock, Series B Preferred Stockholders are entitled to receive dividends at the rate of 8% per annum, compounding annually, which will accrue on a quarterly basis commencing on the date of issuance of the Series B Preferred Stock. Dividends will be payable, as accrued, upon liquidation, event of sale, redemption date, and conversion to common stock (whether declared or not) as specified in the Stockholders' Agreement. The holders of shares of Series B Preferred Stock are also entitled to dividends declared or paid on any shares of common stock.

Series C Preferred Stockholders are entitled to receive dividends at the rate of 8% per annum, compounding annually, which will accrue on a quarterly basis commencing on the date of issuance of the Series C Preferred Stock. Dividends will be payable, as accrued, upon liquidation, event of sale, redemption date, and conversion to common stock as (whether declared or not) specified in the Stockholders' Agreement. The holders of shares of Series C Preferred Stock are also entitled to dividends declared or paid on any shares of common stock.

Voting

The Preferred Stockholders are entitled to vote together with the holders of the common stock as one class on an as if converted basis.

In addition, the Series B and Series C Preferred Stockholders, voting as a separate class (Senior Preferred Stockholders), have the exclusive right to elect six members of the Board of Directors.

Liquidation

The Series C Preferred Stock ranks senior and prior to the Series B Preferred Stock, Series A Preferred Stock, and the Company's common stock. The Series B Preferred Stock ranks senior and prior to the Series A Preferred Stock and the Company's common stock, and junior to the Series C Preferred Stock. The Series A Preferred Stock ranks senior and prior to the Company's common stock.

In the event of a liquidation, dissolution, or winding-up of the Company, the holders of the Series C Preferred Stock are entitled to be paid first out of the assets available for distribution, before any payment shall be made to the Series B and Series A Preferred Stockholders. Payment to the Series C Preferred Stockholders shall consist of the original issuance price of \$ 8.14, plus all accrued but unpaid dividends and interest. After the distribution to the Series C Preferred Stockholders, the holders of Series B Preferred Stock, and then Series A Preferred Stock, will be entitled to receive an amount per share equal to the original purchase price per share of \$15.00, plus any declared and unpaid dividends. If the assets of the Company are insufficient to pay the full preferential amounts to the Series C Preferred Stockholders, the assets will be distributed ratably among the Series C Preferred Stockholders in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the Series B and Series A Preferred Stockholders, after payment to the Series C Preferred Stockholders, the Series B Stockholders shall first share ratably in any remaining distribution of assets according to the respective amounts which would be repayable to them in respect of the shares of Series B Preferred Stock held upon such distribution. The Series A Preferred Stockholders would only share in the distribution of assets once the Series B Preferred Stockholders have received their full preferential amounts.

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****9. Convertible Preferred Stock and Redeemable Convertible Preferred Stock (Continued)**

In the event of, and simultaneously with, the closing of an Event of Sale of the Company (as defined in the Stockholders' Agreement), the Company shall redeem all of the shares of Series A, Series B, and Series C Preferred Stock then outstanding at the Special Liquidation Price. If the Event of Sale involves consideration other than cash, the Special Liquidation Price may be paid with such consideration having a value equal to the Special Liquidation Price. The Special Liquidation Price shall be equal to an amount per share, which would be received by each Preferred Stockholder if, in connection with the Event of Sale, all the consideration paid in exchange for the assets or the shares of capital stock of the Company was actually paid to and received by the Company, and the Company was immediately liquidated thereafter and its assets distributed pursuant to the liquidation terms above.

10. Stockholders' Deficit**Common Stock**

The Company has reserved the following number of shares of common stock at December 31, 2009 and 2010 and March 31, 2011:

	December 31		March 31
	2009	2010	2011
			(Unaudited)
Conversion of Series A Preferred Stock	61,664	61,664	61,664
Conversion of Series B Preferred Stock	1,599,997	1,599,997	1,599,997
Conversion of Series C Preferred Stock	10,146,629	10,146,629	10,146,629
Stock options	1,767,274	1,764,881	1,764,881
Series A Preferred Stock warrants	1,333	1,333	1,333
Total	13,576,897	13,574,504	13,574,504

2003 Long-Term Incentive Plan

The Incentive Plan provides for the granting of incentive stock options, nonqualified options and stock grants to key employees and consultants of the Company. The exercise price of the incentive stock options, as determined by the Board of Directors, must be at least 100% (110% in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock) of the common stock fair value as of the date of the grant. The provisions of the Incentive Plan limit the exercise of incentive stock options, but in no case may the exercise period extend beyond ten years from the date of grant (five years in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock). Stock options generally vest over a four-year period. The Company has authorized 2,015,666 shares of common stock for issuance under the Incentive Plan.

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****10. Stockholders' Deficit (Continued)****Stock-Based Compensation**

A summary of stock option activity is as follows:

	Shares	Weighted-Average Exercise Price	Weighted-Average Contractual Life (In Years)	Aggregate Intrinsic Value
Options outstanding at December 31, 2009	1,216,718	\$ 1.20	7.74	\$ 1,381,895
Granted	258,332	1.35		
Exercised	(2,383)	0.90		
Cancelled	(10,802)	1.20		
Options outstanding at December 31, 2010	1,461,865	\$ 1.20	7.28	\$ 1,715,097
Granted (unaudited)				
Exercised (unaudited)				
Cancelled (unaudited)				
Options outstanding at March 31, 2011 (unaudited)	1,461,865	\$ 1.20	7.03	\$ 1,715,097
Options exercisable at December 31, 2010	1,017,895	\$ 1.20	6.69	\$ 1,153,957
Options exercisable at March 31, 2011 (unaudited)	1,071,634	\$ 1.12	6.51	\$ 1,218,448
Options vested or expected to vest at December 31, 2010	1,449,481	\$ 1.20	7.26	\$ 1,699,450
Options vested or expected to vest at March 31, 2011 (unaudited)	1,450,978	\$ 1.17	7.03	\$ 1,701,997

No stock options were exercised in the year ended December 31, 2009 and 2,383 stock options were exercised in the year ended December 31, 2010. No stock options were exercised in the three month period ended March 31, 2011 (unaudited). The weighted-average grant-date fair value of options granted during 2009 and 2010 was \$0.75 and \$0.60, respectively. The total grant-date fair value of stock options that vested during 2010 and in the three month period ended March 31, 2011 was approximately \$104,000 and \$38,000 (unaudited), respectively. The aggregate intrinsic value of options that vested during 2010 and in the three month period ended March 31, 2011 was approximately \$154,000 and \$64,000 (unaudited), respectively.

As of December 31, 2010 and March 31, 2011, there was approximately \$101,000 and \$79,000 (unaudited), respectively, of total unrecognized compensation expense related to unvested employee share-based compensation arrangements, which is expected to be recognized over a weighted-average period of approximately 0.6 and 0.6 (unaudited) years, respectively.

During 2009 and 2010, the Company's Board of Directors granted 1,666 and 10,000 stock options, respectively, to a Scientific Advisory Board member of the Company. During 2010, the Company's Board of Directors granted 256,666 stock options to a new member of the Board of Directors of the Company. There were no stock options granted in the three-month period ended March 31, 2011 (unaudited). The Company records stock-based compensation expense for such options as they vest, and remeasures the fair value of the options at each reporting period. During the years ended

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Radius Health, Inc.

Notes to Financial Statements (Continued)

10. Stockholders' Deficit (Continued)

December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, the Company recorded approximately \$25,000, \$34,000, \$5,000 (unaudited) and \$21,000 (unaudited) of stock-based compensation expense, respectively.

11. License Agreements

On September 27, 2005, the Company entered into a license agreement (the Ipsen Agreement) with SCRAS S.A.S, a French corporation on behalf of itself and its affiliates (collectively, Ipsen). Under the Ipsen Agreement, Ipsen granted to the Company an exclusive right and license under certain Ipsen compound technology and related patents to research, develop, manufacture and commercialize certain compounds and related products in all countries, except Japan and (subject to certain co-marketing and co-promotion rights retained by Ipsen) France. BA058 (the Company's bone growth drug) is subject to the Ipsen Agreement. Ipsen also granted the Company an exclusive right and license under the Ipsen compound technology and related patents to make and have made compounds or product in Japan. Ipsen also granted the Company an exclusive right and license under certain Ipsen formulation technology and related patents solely for purposes of enabling the Company to develop, manufacture and commercialize compounds and products covered by the compound technology license in all countries, except Japan and (subject to certain co-marketing and pro-promotion rights retained by Ipsen) France. In consideration for these licenses, the Company made a nonrefundable, non-creditable payment of \$250,000 to Ipsen, which was expensed during 2005 as research and development costs. The Ipsen Agreement provides for further payments to Ipsen upon the achievement of certain development and commercialization milestones specified in the Ipsen Agreement, and for the payment of royalties on net sales of any product that includes the compound licensed from Ipsen or any analog thereof.

If the Company sublicenses the rights licensed from Ipsen, then the Company will also be required to pay Ipsen a percentage of certain payments received from such sublicensee (in lieu of milestone payments not achieved at the time of such sublicense). The Ipsen Agreement was amended on September 12, 2007. In connection with the Ipsen Agreement, the Company recorded approximately \$1,117,000, \$1,227,000, \$5,000 (unaudited) and \$126,000 (unaudited) in research and developments costs in the years ended December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, respectively. The costs were incurred by Ipsen and charged to the Company for the manufacture of the clinical supply of the licensed compound.

On May 11, 2011, the Company entered into a second amendment to the Ipsen Agreement pursuant to which Ipsen agreed to accept shares of Radius Series A-1 convertible preferred stock (Series A-1 Preferred Stock) in lieu of cash as consideration for a milestone payment due to Ipsen following the initiation of the first BA058 Phase III study. The number of shares of Series A-1 Preferred Stock to be issued to Ipsen will be determined based upon the exchange rate for the euro two business days prior to closing, which is expected to occur on May 17, 2011. Assuming the exchange rate effective on May 11, 2011, the Company would issue 176,260 shares of Series A-1 Preferred Stock to Ipsen to settle the obligation. The number of shares could increase or decrease due to changes in the exchange rate upon closing. Radius agreed to pay interest in cash to Ipsen should the closing not occur within the defined timeframe for payment of the milestone.

On June 29, 2006, the Company entered into a license agreement (the Eisai Agreement) with Eisai Co., Ltd. (Eisai) under which the Company was granted the exclusive license in all countries, except Japan, to use certain technology related to the compound known as RAD1901 (the Company's

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Radius Health, Inc.

Notes to Financial Statements (Continued)

11. License Agreements (Continued)

drug for the treatment of menopausal symptoms, as well as other women's health issues). The Company also was granted the right to sublicense with prior written approval from Eisai, but subject to a right of first negotiation held by Eisai if the Company seeks to grant sublicenses limited to particular Asian countries. In consideration for the license, the Company made an initial payment to Eisai of \$500,000 upon signing of the Eisai Agreement, which was expensed as research and development costs at that time. The Eisai Agreement also provides for further payments to Eisai upon the achievement of certain development and regulatory milestones, as defined in the Eisai Agreement. Additionally, the Eisai Agreement provides for the payment of royalties on net sales of products covered by the licensed patents and technology. In January 2008, the Company paid \$500,000 to Eisai upon the achievement of the first milestone, acceptance of the Company's Investigational New Drug submission. The payment was expensed as research and development costs. No payments were made to Eisai in 2009, and \$500,000 was expensed as research and development expense and paid to Eisai in March 2010 upon achievement of the second milestone.

On August 17, 2007, the Company entered into an option agreement with Novartis International Pharmaceutical Ltd (Novartis). For a fee of \$5 million, paid to the Company in August 2007, Novartis had the option of obtaining an exclusive sublicense to further develop and commercialize products comprising Radius' proprietary PTH related protein analog, BA058, and any back-up or derivative compounds, subject to the terms of the sublicense agreement for a fixed period of time as defined in the Option Agreement. The Option Agreement terminated at the earlier of the execution of a sublicense agreement between the two parties, or six months from the date Novartis received a Study Report, as defined in the Option Agreement, from the Company. The Company delivered the Study Report to Novartis in April 2009. In October of 2009, Novartis notified the Company that it would not be exercising its option to license the technology per the terms of the agreement. The Company recognized the \$5 million option fee as revenue ratably based on the estimated performance period.

12. Research Agreements

In March 2004, the Company entered into a Laboratory Services and Confidentiality Agreement with Charles River Laboratories, Inc. ("CRLI") and amended this agreement on November 7, 2008. The Company has entered into a series of letter agreements with CRLI pursuant to this Laboratory Services and Confidentiality Agreement, covering the performance of certain testing and analytical services concerning the Company's product candidates. For the years ended December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, the Company incurred approximately \$204,000, \$528,000, \$60,000 (unaudited) and \$325,000 (unaudited) of costs, which were expensed as research and development costs, respectively.

On November 3, 2006, the Company entered into a master clinical services agreement with MDS Pharma Services, Inc. (MDS) whereby the Company agreed to sponsor a study conducted by MDS to evaluate the effects of the Company's bone growth drug (BA058) in the treatment of postmenopausal women with osteoporosis. The expected duration of the study was from September 2006 through March 2009. During 2009 the agreement was assigned by MDS to INC Research, Inc. Total estimated costs to be incurred under this agreement are \$9.5 million. For the years ended December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, the Company incurred approximately \$1.7 million, \$12,000, \$0 (unaudited) and \$4,000 (unaudited) of costs, which were expensed as research and development costs, respectively.

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Radius Health, Inc.

Notes to Financial Statements (Continued)

12. Research Agreements (Continued)

In October 2007, the Company entered into a Development and Manufacturing Services Agreement with LONZA Sales Ltd. on behalf of itself and its affiliates (collectively, Lonza). The Company and Lonza have entered into a series of Work Orders pursuant to the Development and Manufacturing Services Agreement pursuant to which Lonza has performed pharmaceutical development and manufacturing services for the Company's BA058 product. For the years ended December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, the Company incurred approximately \$26,000, \$974,000, \$94,000 (unaudited) and \$0 (unaudited) of costs, which were expensed as research and development costs, respectively.

On December 4, 2008, the Company entered into a Feasibility Agreement with 3M Company and 3M Innovative Properties Company (collectively 3M) whereby 3M assessed the feasibility of developing a BA058 microneedle patch product and supplying the product for preclinical studies in an animal model. On June 19, 2009, upon completion of the feasibility study, the Company entered into a Development and Clinical Supplies Agreement with 3M for the further development of a BA058 microneedle patch product and the supply of such product for certain clinical studies. Total payments to 3M for work performed under both the Feasibility Agreement and the Development and Clinical Supplies Agreement were approximately \$2,400,000, \$313,000, \$224,000 (unaudited) and \$332,000 (unaudited) in the years ended December 31, 2009 and 2010 and in the three-month periods ended March 31, 2010 and 2011, respectively. These costs were expensed as incurred to research and development.

In September 2010, the Company entered into a Letter of Intent with Nordic Bioscience Clinical Development VII A/S ("Nordic") on, pursuant to which the Company funded preparatory work by Nordic in respect of a Phase III clinical study of BA058 for injection. The Letter of Intent was extended on December 15, 2010 and on January 31, 2011. Pursuant to the Letter of Intent and the two extensions, Radius funded an aggregate \$1,500,000 of preparatory work by Nordic during 2010 and funded an additional \$750,000 of preparatory work by Nordic during 2011. On March 29, 2011, the Company and Nordic entered into a Clinical Trial Services Agreement, a Work Statement NB-1 under such Clinical Trial Services Agreement and a related Stock Issuance Agreement. Pursuant to Work Statement NB-1, Nordic is managing the Phase III clinical study of BA058 for Injection. Pursuant to the Stock Issuance Agreement, Nordic will purchase the equivalent of €371,864 of Radius' Series A-5 Preferred Stock at a price per share equal to \$8.142. The Stock Issuance Agreement provides that Nordic will receive additional shares of capital stock, which shall initially be in the form of the Company's Series A-6 Preferred Stock, at certain times during the performance of the Phase III clinical study that is the subject of Work Statement NB-1.

13. Income Taxes

As of December 31, 2010 the Company had federal and state net operating loss (NOL) carryforwards of approximately \$85,483,000 and \$74,621,000, respectively, which may be used to offset future taxable income. The Company also had federal and state tax credits of \$2,424,000 and \$257,000, respectively, to offset future tax liabilities. The NOL and tax credit carryforwards will expire at various dates through 2030, and are subject to review and possible adjustment by federal and state tax authorities. The Internal Revenue Code contains provision that may limit the NOL and tax credit carryforwards available to be used in any given year in the event of certain changes in the ownership interests of significant stockholders under Section 382 of the Internal Revenue Code.

Table of Contents**Radius Health, Inc.****Notes to Financial Statements (Continued)****13. Income Taxes (Continued)**

A reconciliation of income taxes computed using the U.S. federal statutory rate to that reflected in operations follows:

	Year Ended December 31	
	2009	2010
Income tax benefit using U.S. federal statutory rate	\$ (5,130,269)	\$ (4,974,122)
State income taxes, net of federal benefit	(946,082)	410,872
Stock-based compensation	40,148	34,184
Research and development tax credits	(504,374)	(319,660)
Change in the valuation allowance	6,404,944	4,837,455
Permanent items	124,574	3,436
Other	11,059	7,835
	\$	\$

The Company is subject to Massachusetts net worth taxes, not based on income, which is largely offset by allowable tax credits and recorded as a component of operating expenses.

The principal components of the Company's deferred tax assets are as follows:

	December 31	
	2009	2010
Deferred tax assets:		
Net operating loss carryforwards	\$ 28,047,000	\$ 33,008,000
Capitalized research and development	2,244,000	1,789,000
Research and development credits	2,273,000	2,593,000
Depreciation and amortization	122,000	126,000
Other	141,000	148,000
Gross deferred tax assets	32,827,000	37,664,000
Valuation allowance	(32,827,000)	(37,664,000)
Net deferred tax asset	\$	\$

The Company has recorded a valuation allowance against its deferred tax assets in each of the years ended December 31, 2009 and 2010, because the Company's management believes that it is more likely than not that these assets will not be realized. The increase in the valuation allowance in 2010 primarily relates to the net loss incurred by the Company.

Effective January 1, 2009, the Company adopted new accounting guidance related to accounting for uncertainty in income taxes. The Company's reserves related to taxes are based on a determination of whether and how much of a tax benefit taken by the Company in its tax filings or positions is more likely than not to be realized following resolution of any potential contingencies present related to the tax benefit. As a result of the implementation of the new guidance, the Company recognized no material adjustment for unrecognized income tax benefits. As of the adoption date on January 1, 2009, and through December 31, 2010, the Company had no unrecognized tax benefits or related interest and penalties accrued. The Company has not, as yet, conducted a study of research and development (R&D) credit carryforwards. This study may result in an adjustment to the Company's R&D credit

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Radius Health, Inc.

Notes to Financial Statements (Continued)

13. Income Taxes (Continued)

carryforwards; however, until a study is completed and any adjustment is known, no amounts are being presented as an uncertain tax position. A full valuation allowance has been provided against the Company's R&D credits and, if an adjustment is required, this adjustment would be offset by an adjustment to the valuation allowance. Thus, there would be no impact to the balance sheet or statement of operations if an adjustment were required. The Company would recognize both accrued interest and penalties related to unrecognized benefits in income tax expense. The Company has not recorded any interest or penalties on any unrecognized benefits since inception.

The statute of limitations for assessment by the Internal Revenue Service and Massachusetts tax authorities is closed for tax years prior to December 31, 2007, although carryforward attributes that were generated prior to tax year 2007 may still be adjusted upon examination by the IRS or state tax authorities if they either have been or will be used in a future period. The Company files income tax returns in the United States and Massachusetts. There are currently no federal or state audits in progress.

Qualifying Therapeutic Discovery Project Grants

In October 2010, the Company received notification from the Internal Revenue Service that it was awarded three separate grants in the aggregate amount of \$733,438 pursuant to the qualifying therapeutic discovery grant program established by the Internal Revenue Service and the Secretary of Health and Human Services under the Patient Protection and Affordable Care Act of 2010. The grants were made with respect to certain of the Company's qualifying research and development programs. The Company received the full amount related to these grants in 2010, and this amount was recorded as other income in the statement of operations for the year ended December 31, 2010.

14. Subsequent Events

On April 25, 2011, the Company executed a merger agreement for a reverse merger with MPM Acquisition Corp., a public shell company, and a Series A-1 convertible preferred stock purchase agreement ("Stock Purchase Agreement"). On May 11, 2011, the Stock Purchase Agreement was amended to provide the Company with an irrevocable, legally binding commitment for \$64.3 million of proceeds from the issuance of 7,895,535 shares of Series A-1 convertible preferred stock at \$8.142 per share to accredited investors in three closings which will take place in 2011. The proceeds from each closing are generally due to the Company upon written request according to the provisions of the Stock Purchase Agreement, as amended, and there are no closing conditions or other contingencies that would prevent the Company from having access to the proceeds at their request. Prior to the execution of the reverse merger, the Company's existing preferred stock will be recapitalized whereby shares of the existing Series C, Series B and Series A Preferred Stock will be exchanged for new Series A-2 convertible preferred stock, new Series A-3 convertible preferred stock and new Series A-4 convertible preferred stock, respectively. All prior accrued dividends on the original Series B and C Preferred stock will be forfeited by the holders as part of this recapitalization. In addition, the holders of the Series B and Series C Preferred stock waived their contingent redemption rights on such shares.

On May 17, 2011, the Company's Board of Directors and stockholders approved a 15:1 reverse stock split of all of the Company's capital stock. All share and per share amounts in the financial statements have been retroactively adjusted for all periods presented to give effect to the reverse stock split, including reclassifying an amount equal to the reduction in par value to additional paid-in-capital.

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Radius Health, Inc.

Notes to Financial Statements (Continued)

14. Subsequent Events (Continued)

On May 17, 2011, the Company's preferred stock was recapitalized, as discussed above, and the Company closed the reverse merger with MPM Acquisition Corp. In addition, the Company executed the first closing under the Stock Purchase Agreement pursuant to which it issued 2,631,845 shares of Series A-1 convertible preferred stock for gross proceeds of \$21.4 million. The Company also issued 64,430 shares of Series A-5 convertible preferred stock to Nordic for proceeds of \$528,589 in accordance with the Stock Issuance Agreement discussed in Note 12.

15. Subsequent Event (unaudited)

On May 23, 2011, the Company entered into a Loan and Security Agreement (the Agreement) with several lenders, pursuant to which the lenders agreed to make available to the Company \$25,000,000 in the aggregate over three term loans. The initial term loan was made on May 23, 2011 in an aggregate principal amount equal to \$6,250,000 (the "Initial Term Loan") and is repayable over a term of 42 months, including a six-month interest only period. The Initial Term Loan bears interest at 10%. Pursuant to the Agreement, the Company may request two additional term loans, the first, which must be funded no later than November 23, 2011, in an aggregate principal amount equal to \$6,250,000 (the "Second Term Loan") and the second, which must be funded not later than May 23, 2012, in an aggregate principal amount equal to \$12,500,000 (the "Third Term Loan"). In the event the Second Term Loan is not funded on or before November 23, 2011, the Lenders' commitment to make the Second Term Loan shall be terminated and the total commitment shall be reduced by \$6,250,000. In the event the Third Term Loan is not funded on or before May 23, 2012, the Lenders' commitment to make the Third Term Loan shall be terminated and the total commitment shall be further reduced by \$12,500,000. Pursuant to the Agreement, the Company agreed to issue to the Lenders (or their respective affiliates or designees) warrants to purchase a number of shares of the Company's Series A-1 Preferred Stock equal to the quotient of (a) the product of (i) the amount of the applicable term loan multiplied by (ii) four percent (4%) divided by (b) the exercise price equal to \$81.42 per share. The warrants expire ten years from the date they are issued. On May 23, 2011, the Company issued a warrant to each of the lenders for the purchase of a total of 3,070 shares of Series A-1 Preferred stock.

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UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL STATEMENTS

The unaudited pro forma condensed combined financial statements combine the historical financial information of Radius Health, Inc. (the "Target") with the historical financial information of MPM Acquisition Corp. (the "Company").

The following unaudited pro forma condensed combined financial statements are based on the historical financial statements of Target after giving effect to the reverse merger with a wholly-owned subsidiary of the Company and the pre-merger reverse stock split, recapitalization and Series A-1 convertible preferred stock financing of the Target. Following the reverse merger, Target merged with and into the Company, leaving the Company as the surviving corporation (the "Short-Form Merger"). In connection with the Short-Form Merger, the Company relinquished its corporate name and assumed in its place the name "Radius Health, Inc." The reverse merger is accounted for as a capital transaction in the pro forma condensed combined financial statements. As a result, the historical common stock and preferred stock balances of the Target were carried forward to the combined company. The par value of Target's common stock was adjusted to reflect the par value of the Company's common stock (\$.0001), with a corresponding offset to accumulated deficit. The unaudited pro forma condensed combined balance sheet is presented as if the reverse merger had occurred on March 31, 2011. The unaudited pro forma condensed combined statements of operations for the three months ended March 31, 2011 and year ended December 31, 2010 are presented as if the merger had occurred on January 1, 2010. The historical financial information has been adjusted to give effect to pro forma events that are both directly attributable to the reverse merger agreement and are factually supportable. You should read this information in conjunction with the:

Accompanying notes to the unaudited pro forma condensed combined financial statements contained herein.

Separate historical audited financial statements of Target as of December 31, 2009 and 2010 and for the years then ended and the unaudited financial statements as of March 31, 2011 and for the three months ended March 31, 2010 and 2011 included elsewhere in this Registration Statement.

Separate historical audited financial statements of the Company as of December 31, 2010 and 2009 and for the years then ended, and the unaudited condensed financial statements as of March 31, 2011 and for the three months ended March 31, 2011 and 2010 included in the respective Form 10-K and 10-Qs of the Company.

Management's discussion and analysis of financial condition and results of operations and "Risk Factors" included elsewhere in this Registration Statement.

The unaudited pro forma condensed combined financial statements are presented for informational purposes only. The pro forma information is not necessarily indicative of what the financial position or results of operations actually would have been had the transaction been completed at the dates indicated. In addition, the unaudited pro forma combined financial information does not purport to project the future financial position or operating results of the combined company after completion of the merger.

The pro forma financial statements have been prepared assuming that the reverse merger is accounted for as a capital transaction. The forfeiture of dividends in connection with the pre-merger recapitalization of Target has been reflected as an extinguishment in the pro forma balance sheet. This accounting treatment is preliminary and subject to change once the Company completes its evaluation of the accounting for the transaction. As a result, the actual accounting for this transaction may differ significantly from this pro forma presentation.

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UNAUDITED PRO FORMA CONDENSED COMBINED BALANCE SHEET
March 31, 2011

	Target	Pro forma Adjustment(1)	Pro forma Adjustment(2)	Pro forma Target	Pro forma Company Adjustment(3)	Pro forma Combined
Assets						
Current assets:						
Cash and cash equivalents	\$ 10,224,439	\$ 21,928,589		\$ 32,153,028	\$ 100 \$ (50,000)	\$ 32,103,128
Marketable securities	1,849,854			1,849,854		1,849,854
Prepaid expenses and other assets	321,649			321,649		321,649
Total current assets	\$ 12,395,942	\$ 21,928,589		\$ 34,324,531	\$ 100 \$ (50,000)	\$ 34,274,631
Property and equipment, net	24,810			24,810		24,810
Other assets	89,561			89,561		89,561
Total assets	\$ 12,510,313	\$ 21,928,589	\$	\$ 34,438,902	\$ 100 \$ (50,000)	\$ 34,389,002
Liabilities and stockholders' equity						
Current liabilities:						
Accounts payable	\$ 193,885			\$ 193,885	\$ 6,750 \$ (6,750)	\$ 193,885
Accrued expenses	1,696,464	955,000		2,651,464		1,696,464
Note Payable					87,620 (87,620)	
Total current liabilities	1,890,348			2,845,348	94,370 (94,370)	2,845,348
Warrant for the purchase of preferred stock		45,000		45,000		45,000
Commitments						
Series A convertible preferred stock	92,500		(92,500)			
Series B convertible preferred stock	39,076,142		(39,076,142)			
Series C convertible preferred stock	107,543,196		(107,543,196)			
Series A-1 convertible preferred stock		20,400,000		20,400,000		20,400,000
Series A-2 convertible preferred stock			82,608,211	82,608,211		82,608,211
Series A-3 convertible preferred stock			23,997,672	23,997,672		23,997,672
Series A-4 convertible preferred stock			92,500	92,500		92,500
Series A-5 convertible preferred stock		528,589		528,589		528,589
Stockholders' deficit:						
Common stock	3,228		2,328	5,556	500 (6,000)	56
Additional paid-in capital					49,500 (49,500)	
Accumulated other comprehensive income	266			266		266
Accumulated deficit	(136,095,367)		40,011,127	(96,084,240)	(144,270) 99,870	(96,128,640)
Total stockholders' deficit	(136,091,873)		40,013,455	(96,078,418)	(94,270) 44,370	(96,128,318)
Total liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit	\$ 12,510,313	\$ 21,928,589	\$	\$ 34,438,902	\$ 100 \$ (50,000)	\$ 34,389,002

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**UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENT OF OPERATIONS
FOR THE THREE MONTHS ENDED March 31, 2011**

	Target	Company	Pro forma Adjustment(2)	Pro forma Combined
Operating expenses:				
Research and development	\$ 4,136,447	\$	\$	\$ 4,136,447
General and administrative	897,247	10,143		907,390
Loss from operations	5,033,694	10,143		5,043,837
Interest income	13,990			13,990
Other income	9,778			9,778
Interest expense				
Net loss	\$ (5,009,926)	\$ (10,143)	\$	\$ (5,020,069)
Accretion of preferred stock	(2,875,767)			(2,875,767)
Extinguishment of preferred stock			40,011,127	40,011,127
Net income (loss) attributable to common stockholders	\$ (7,885,693)	\$ (10,143)	\$ 40,011,127	\$ 32,115,291
Net income attributable to common stockholders:				
Basic				\$ 57.80
Diluted				\$ 2.06
Weighted averages shares outstanding:				
Basic				555,594
Diluted				16,820,580

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**UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENT OF OPERATIONS
FOR THE YEAR ENDED DECEMBER 31, 2010**

	Target	Company	Pro forma Adjustment(2)	Pro forma Combined
Operating expenses:				
Research and development	\$ 11,691,906	\$	\$	\$ 11,691,906
General and administrative	3,629,475	46,782		3,676,257
Restructuring expense	217,200			217,200
Loss from operations	15,538,581	46,782		15,585,363
Interest income	84,915			84,915
Other income	882,687			882,687
Interest expense	(58,792)			(58,792)
Net loss	\$ (14,629,771)	\$ (46,782)		\$ (14,676,553)
Accretion of preferred stock	(12,142,667)			(12,142,667)
Extinguishment of preferred stock			37,180,195	37,180,195
Net income (loss) attributable to common stockholders	\$ (26,772,438)	\$ (46,782)	\$ 37,180,195	\$ 10,360,975
Net income attributable to common stockholders:				
Basic			\$	18.65
Diluted			\$	1.21
Weighted averages shares outstanding:				
Basic				555,594
Diluted				16,820,580

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NOTES TO UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL INFORMATION

1. Description of Transaction

Pursuant to an Agreement and Plan of Merger dated April 25, 2011 by and among MPM Acquisition Corp. (the "Company"), RHI Merger Corp., a wholly owned subsidiary of the Company ("Merger Co"), and Radius Health, Inc. (the "Target"), MergerCo merged with and into Target, with Target remaining as the surviving entity and a wholly-owned operating subsidiary of the Company. This transaction is referred to throughout as the "Merger". The Merger was effective as of May 17, 2011, upon the filing of a certificate of merger with the Delaware Secretary of State.

At the effective time of the Merger (the "Effective Time"), the legal existence of MergerCo ceased and all of the shares of Target's common stock, par value \$.01 per share, and shares of Target's preferred stock, par value \$.01 per share, that were outstanding immediately prior to the Merger were cancelled and each outstanding share of Target common stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one share of the Company's Common Stock and each outstanding share of Target preferred stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one-tenth of one share of the Company's Preferred Stock from the Company as consideration for the Merger.

Contemporaneously with the closing of the merger, pursuant to the terms of a Redemption Agreement dated March 25, 2011 by and among the Company and its then-current stockholders, the Company completed the repurchase of 5,000,000 shares of Common Stock from its former stockholders in consideration of an aggregate of \$50,000. The 5,000,000 shares constituted all of the issued and outstanding shares of the Company's capital stock, on a fully-diluted basis, immediately prior to the Merger.

Following the Merger on May 17, 2011, the Board of Directors approved a transaction pursuant to which Target merged with and into the Company, leaving the Company as the surviving corporation (the "Short-Form Merger"). In connection with the Short-Form Merger, the Company relinquished its corporate name and assumed in its place the name "Radius Health, Inc." The Short-Form and name change became effective on May 17, 2011, upon the filing of a Certificate of Ownership and Merger with the Delaware Secretary of State.

2. Basis of Presentation

The unaudited pro forma condensed combined financial statements were prepared in accordance with Securities and Exchange Commission Regulation S-X, Article 8 after considering the rules set forth in Regulation S-X, Article 11 and are based on the historical financial statements of Target and the Company.

The Pro forma Target column in the unaudited pro forma condensed combined balance sheet reflects the first closing of the Target's Series A-1 preferred stock financing effective May 17, 2011 pursuant to which Target received gross proceeds of \$21.4 million (\$20.4 million, net of estimated issuance costs) and the issuance of shares of Series A-5 convertible preferred stock to Nordic Biosciences for gross proceeds of approximately \$524,000. In addition, the pro forma Target column also reflects the recapitalization of Target's equity prior to the merger pursuant to which shares of Series A, B and C convertible preferred stock were exchanged for shares of Series A-4, A-3 and A-2 convertible preferred stock, respectively. In connection with the recapitalization, the Series B and C preferred stockholders waived their rights to dividends on such shares. As noted above, this recapitalization has been reflected in the unaudited pro forma condensed balance sheet as an extinguishment. Accordingly, the difference between the book value of the affected preferred stock and the fair value of the preferred and common stock issued in exchange was recorded as a \$40.0 million

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NOTES TO UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL INFORMATION (Continued)

2. Basis of Presentation (Continued)

and \$37.2 million gain on extinguishment for the three month period ended March 31, 2011 and the year ended December 31, 2010, respectively, through a decrease in accumulated deficit. Additionally, the combined net income (loss) per share reflects the extinguishment as a redemption of preferred stock in accordance with Accounting Standards Codification 260 *Earnings Per Share*. This accounting treatment is preliminary and subject to change once the Company completes its evaluation of the accounting for the recapitalization and the financing. As a result, the actual accounting for this transaction may differ significantly from this pro forma presentation.

The unaudited condensed combined balance sheet at March 31, 2011 does not reflect the proceeds and related note payable balance as a result of a Loan and Security Agreement executed on May 23, 2011, that is disclosed as an unaudited footnote to the financial statements included elsewhere in this Form 8-K as the transaction was not directly attributable to the merger.

3. Pro Forma Adjustments

This note should be read in conjunction with *Note 1. Description of Transaction* and *Note 2. Basis of Presentation*. Adjustments included in the column under the heading "Pro Forma Adjustments" include the following:

1) Pro forma adjustment (1) reflects the first closing of Target's Series A-1 preferred stock financing effective May 17, 2011 pursuant to which target received gross proceeds of \$21.4 million (\$20.4 million, net of estimated issuance costs) from the issuance of 2,631,845 shares of Series A-1 convertible preferred stock and the issuance of shares of Series A-5 convertible preferred stock to Nordic Biosciences for gross proceeds of approximately \$524,000. The net proceeds from the Series A-1 preferred stock financing include an estimate of \$45,000 for the fair value of a warrant for the purchase of shares of Series A-1 convertible preferred stock that was issued in connection with the financing.

2) Pro forma adjustment (2) reflects the recapitalization of Target's equity prior to the Merger pursuant to which shares of Series A, B and C convertible preferred stock were exchanged for shares of Series A-4, A-3 and A-2 convertible preferred stock, respectively, and in certain cases, shares of common stock if investors did not purchase their pro rata share in the Series A-1 convertible preferred stock financing described in pro forma adjustment (2). In connection with the recapitalization, the Series B and C preferred stockholders waived their rights to accumulated 8% per annum dividends due on such shares upon redemption or liquidation. For the purposes of this pro forma presentation and as noted above, this recapitalization is being accounted for as an extinguishment. Accordingly, the difference between the book value of the affected preferred stock and the fair value of the preferred and common stock issued in exchange was recorded as a \$40.0 million and \$37.2 million gain on extinguishment for the three month period ended March 31, 2011 and the year ended December 31, 2010, respectively, through a decrease in accumulated deficit and an increase to net income attributable to common stockholders.

3) Pro forma adjustment (3) reflects the reverse merger of Target into the Company. The adjustment includes the repurchase of 5,000,000 shares of common stock from the Company's former stockholders in consideration of an aggregate of \$50,000. The adjustment also includes the reclassification of \$5,500 from common stock to accumulated deficit to reflect the Company's par value of common stock of \$0.0001 as compared to \$0.01 for the Target. In addition, the adjustment reflects the forgiveness of a \$94,370 note payable to the Target. Target wrote off the related note receivable in the year ended December 31, 2010.

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**16,086,040 Shares
Common Stock**

PROSPECTUS

Table of Contents**PART II****INFORMATION NOT REQUIRED IN PROSPECTUS****Other Expenses of Issuance and Distribution**

The following table indicates the expenses to be incurred in connection with the offering described in this Registration Statement, all of which will be paid by us. All amounts are estimates, other than the SEC registration fee.

SEC Registration Fee	\$ 15,208
Accounting fees and expenses	*
Printing and engraving expenses	*
Legal fees and expenses	*
Miscellaneous	*
 Total	 *

*

To be filed by an amendment.

Indemnification of Directors and Officers

Section 145 of the DGCL permits indemnification of officers, directors and other corporate agents under certain circumstances and subject to certain limitations. Articles 7 and 8 of our certificate of incorporation provides that we will indemnify, to the fullest extent permitted by Section 145 of the DGCL, as amended from time to time, each person that such section grants the Corporation power to indemnify, including in circumstances in which indemnification is otherwise discretionary under Delaware law. In addition, we have entered into separate indemnification agreements with our directors and executive officers which would require us, among other things, to indemnify them against certain liabilities which may arise by reason of their status or service (other than liabilities arising from willful misconduct of a culpable nature). The indemnification provisions in our certificate of incorporation and the indemnification agreements to be entered into between us and our directors and executive officers may be sufficiently broad to permit indemnification of our directors and executive officers for liabilities (including reimbursement of expenses incurred) arising under the Securities Act. We also intend to maintain director and officer liability insurance, if available on reasonable terms, to insure our directors and officers against the cost of defense, settlement or payment of a judgment under certain circumstances.

Recent Sales of Unregistered Securities

The following summarizes all sales of unregistered securities by Target and the us, as applicable, since November 2003:

On February 4, 2008, we sold 5,000,000 shares of Common Stock to MPM Asset Management for an aggregate purchase price equal to \$50,000. We sold these shares of Common Stock under the exemption from registration provided by Section 4(2) of the Securities Act.

On November 14, 2003 Target issued 925,000 shares of Series A Junior Convertible Preferred Stock (Series A Preferred Stock) for no consideration in connection with the closing of the transactions agreed to under the Plan and Agreement of Reorganization, by and among Radius and the stockholders of Anabonix, Inc. pursuant to Section 4(2) of the Securities.

On November 14, 2003, Target issued 8,000,000 shares of Series B Convertible Redeemable Preferred Stock (Series B Preferred Stock) in the Stage I closing, on December 31, 2004, the Company issued 8,000,000 shares of Series B Preferred Stock, in a second closing, and on

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December 31, 2005, Target issued an additional 8,000,000 shares of Series B Preferred Stock, in a third closing, under the Series B Convertible Redeemable Preferred Stock Purchase Agreement (the Series B Agreement) at a purchase price of \$1.00 per share, all pursuant to Section 4(2) of the Securities Act and Rule 506.

On December 15, 2006, Target issued 32,902,388 shares of Series C Preferred Stock, in a closing under the Series C Convertible Redeemable Preferred Stock Purchase Agreement (the Series C Agreement) at a purchase price of \$0.54 per share pursuant to Section 4(2) of the Securities Act and Rule 506.

On February 23, 2007, Target issued 21,104,159 shares of Series C Preferred Stock, in an additional closing, and on August 17, 2007, Target issued an additional 18,424,266 shares of Series C Preferred Stock, in an additional interim closing, under the Series C Convertible Redeemable Preferred Stock Purchase Agreement (the "Series C Agreement") at a purchase price of \$0.54 per share pursuant to Section 4(2) of the Securities Act and Rule 506.

On March 28, 2008, Target issued 52,077,744 shares of Series C Preferred Stock, in a Stage II closing, at a purchase price of \$0.54 per share pursuant to Section 4(2) of the Securities Act and Rule 506.

On November 14, 2008, Target issued 27,691,007 shares of Series C Preferred Stock to existing investors, in a Stage III closing, at a purchase price of \$0.54 per share pursuant to Section 4(2) of the Securities Act and Rule 506.

On May 17, 2011, Target issued 9,832,133 shares of Series A-2 Convertible Preferred Stock, 1,422,300 shares of Series A-3 Convertible Preferred Stock, 40,003 Shares of Series A-4 Convertible Preferred stock and 102,767 shares of Common Stock pursuant to a recapitalization, including a reverse split, and completed private placements of 4,132,614 shares of Series A-1 Preferred Stock pursuant to Section 4(2) of the Securities Act and Rule 506.

On May 17, 2011, Target issued 64,430 shares Series A-5 Preferred Stock to Nordic and 17,326 shares of Series A-1 Preferred Stock to Ipsen, each pursuant to Section 4(2) of the Securities Act.

On May 17, 2011, the Company issued 413,254 shares of A-1 Convertible Preferred Stock, 983,208 shares of Series A-2 Convertible Preferred Stock, 142,227 shares of Series A-3 Convertible Preferred Stock, 3,998 shares of Series A-4 Convertible Preferred stock, 6,443 shares of Series A-5 Convertible Preferred Stock and 102,767 shares of Common Stock in the Merger pursuant to Section 4(2) of the Securities Act and Rule 506.

On May 23, 2011, the Company issued warrants to purchase an aggregate of 3,070 shares of Series A-1 Convertible Preferred Stock to lenders in connection with a debt financing pursuant to Section 4(2) and Rule 506.

Exhibits and Financial Statement Schedules

(a) Exhibits

Exhibit No.	Description
2.1	Agreement and Plan of Merger, dated April 25, 2011*
3.1	Certificate of Designations of the Company, filed with the Secretary of State of Delaware on May 17, 2011**
3.2	Certificate of Merger, filed with the Secretary of State of Delaware on May 17, 2011, by and between Radius Health, Inc. and RHI Merger Corp.**

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Exhibit No.	Description
3.3	Certificate of Ownership relating to the merger of Radius Health, Inc. with and into MPM Acquisition Corp.**
3.4	Certificate of Incorporation, as filed with the Delaware Secretary of State on February 4, 2008***
3.5	By-Laws***
4.1	Amended and Restated Stockholders' Agreement, dated May 17, 2011, by and among the Company, as successor to Radius Health, Inc., and the Stockholders listed therein**
5.1	Opinion of Bingham McCutchen LLP*****
10.1	Clinical Trial Services Agreement and Work Statement NB-1, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S**+
10.2	Stock Issuance Agreement, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S**+
10.3	Side Letter, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S**+
10.4	License Agreement, dated September 27, 2005, by and between the Company, as successor to Radius Health, Inc., and SCRAS S.A.S., on behalf of itself and its Affiliates**+
10.5	Pharmaceutical Development Agreement, dated January 2, 2006, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie S.A.S**+
10.6	Amendment No. 1 to Pharmaceutical Development Agreement, dated January 1, 2007, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie S.A.S.**+
10.7	License Agreement Amendment No. 1, dated September 12, 2007, by and between the Company, as successor to Radius Health, Inc., and SCRAS S.A.S.**+
10.8	Amendment No. 2 to Pharmaceutical Development Agreement, dated January 1, 2009, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie S.A.S.**+
10.9	Amendment No. 3 to Pharmaceutical Development Agreement, dated June 16, 2010, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie S.A.S.**+
10.10	License Agreement Amendment No. 2, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma S.A.S.**+
10.11	Series A-1 Convertible Preferred Stock Issuance Agreement, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma S.A.S.**+
10.12	Development and Manufacturing Services Agreement, dated October 16, 2007, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+
10.13	Work Order No. 2, dated January 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+
10.14	Amendment No. 3 to Work Order No.2, dated December 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+

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Exhibit No.	Description
10.15	Development and Clinical Supplies Agreement, dated June 19, 2009, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.16	Amendment No. 1, dated December 31, 2009, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.17	Amendment No. 2, dated September 16, 2010, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.18	Amendment No. 3, dated September 29, 2010, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.19	Change Order Form Amendment No. 5, dated February 4, 2011, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.20	Amendment No. 4, dated March 2, 2011, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.21	Laboratory Services and Confidentiality Agreement, dated March 31, 2004, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories, Inc.**+
10.22	First Amendment to Laboratory Services and Confidentiality Agreement, dated November 7, 2008, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories, Inc.**+
10.23	Letter of Payment Authorization, dated November 20, 2010, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.**+
10.24	Letter of Payment Authorization, dated February 7, 2011, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.**+
10.25	License Agreement, dated June 29, 2006, by and between the Company, as successor to Radius Health, Inc., and Eisai Co., Ltd.**+
10.26	Series A-1 Convertible Preferred Stock Purchase Agreement, dated April 25, 2011, by and among the Company, as successor to Radius Health, Inc., and the Investors listed therein**
10.27*****	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan, assumed in the Merger**
10.28*****	Radius Health, Inc. First Amendment to 2003 Long-Term Incentive Plan effective as of December 15, 2006, assumed in the Merger**
10.29*****	Radius Health, Inc. Second Amendment to 2003 Long-Term Incentive Plan effective as of March 28, 2008, assumed in the Merger**
10.30*****	Radius Health, Inc. Third Amendment to 2003 Long-Term Incentive Plan effective as of November 14, 2008, assumed in the Merger**
10.31	Radius Health, Inc. 2003 Long-Term Incentive Plan Form of Stock Option Agreement**

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Exhibit No.	Description
10.32*****	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan Stock Option Agreement, dated October 8, 2004, by and between the Company, as successor to Nuvios, Inc., and Richard Lyttle for Option No. 04-103**
10.33*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 07-08**
10.34*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 08-09**
10.35*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 08-14**
10.36*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated February 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 06-07**
10.37*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 07-07**
10.38*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 08-05**
10.39*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 08-10**
10.40*****	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan Stock Option Agreement, dated December 16, 2003, by and between the Company, as successor to Nuvios, Inc., and Gary Hattersley for Option No. 03-001**
10.41*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated February 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 06-02**
10.42*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 07-06**
10.43*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 08-08**
10.44*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 08-13**
10.45*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 07-09**
10.46*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 08-06**

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Exhibit No.	Description
10.47*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 08-11**
10.48	Employment Letter Agreement, dated July 2, 2004, by and between the Company, as successor to Nuvios, Inc., and C. Richard Edmund Lyttle**
10.49	Employment Letter Agreement, November 14, 2004, by and between the Company, as successor to Nuvios, Inc., and Gary Hattersley**
10.50	Employment Letter Agreement, dated January 30, 2006, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea**
10.51	Employment Letter Agreement, dated November 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey**
10.52	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Ansbert K. Gadicke**
10.53	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and C. Richard Edmund Lyttle**
10.54	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Martin Muenchbach**
10.55	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Jonathan Fleming**
10.56	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Kurt Graves**
10.57	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Elizabeth Stoner**
10.58	Indemnification Agreement, dated October 12, 2010, by and between the Company, as successor to Radius Health, Inc., and Alan Auerbach**
10.59	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Michael Rosenblatt, M.D.**
10.60	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Christopher Mirabelli**
10.61	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Augustine Lawlor**
10.62	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Edward Mascioli, M.D.**
10.63	Consent to Sublease, dated January 14, 2011, by and among the Company, as successor to Radius Health, Inc., Sonos, Inc., and Broadway/Hampshire Associates Limited Partnership**
10.64	Sublease, dated January 14, 2011, by and between the Company, as successor to Radius Health, Inc., and Sonos, Inc.**
10.65	Amended and Restated Warrant to Purchase Common Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and SVB Financial Group**

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Exhibit No.	Description
10.66*****	Warrant to Purchase Series A-1 Convertible Preferred Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Leerink Swann LLC**
10.67	Amendment No. 1 to Series A-1 Convertible Preferred Stock Purchase Agreement, dated May 11, 2011
10.68	Redemption Agreement, by and between MPM Acquisition Corp. and MPM Asset Management LLC, dated April 25, 2011*
10.69	Loan and Security Agreement, dated May 23, 2011, with General Electric Capital Corporation as agent and a lender, and Oxford Finance LLC as a lender*****
10.70	Promissory Note, dated May 23, 2011, issued by the Company to General Electric Capital Corporation in the principal amount of \$12,500,000*****
10.71	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of \$3,125,000*****
10.72	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of \$9,375,000*****
10.73	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to GE Capital Equity Investments*****
10.74	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to Oxford Finance LLC*****
10.75*****	Amended and Restated Stock Issuance Agreement, dated May 16, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
23.2	Consent of Bingham McCutchen (included in Exhibit 5.1)
24.1	Power of Attorney (included in signature pages hereto)

*
Incorporated by reference to the Company's Current Report on Form 8-K filed on April 29, 2011.

**
Incorporated by reference to the Company's Current Report on Form 8-K filed on May 23, 2011.

Incorporated by reference to the Company's Registration Statement on Form 10 filed on April 16, 2008.

Incorporated by reference to the Company's Current Report on Form 8-K filed on May 27, 2011.

Share numbers and per share prices are presented pre-Reverse Split completed by Radius Health, Inc. on May 17, 2011.

To be filed by an amendment.

+
Confidential Treatment Requested by the Registrant. Redacted Portion Filed Separately with the Commission.

(b) *Financial Statement Schedules.*

None.

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Undertakings

The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) (§ 230.424(b) of this chapter) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities:

The undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424 (§ 230.424 of this chapter);

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

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Signature	Title
/s/ ANSBERT K. GADICKE	Director
Ansbert K. Gadicke	
/s/ KURT GRAVES	Director
Kurt Graves	
/s/ MARTIN MUENCHBACH	Director
Martin Muenchbach	
/s/ ELIZABETH STONER	Director
Elizabeth Stoner	
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EXHIBIT INDEX

Exhibit No.	Description
2.1	Agreement and Plan of Merger, dated April 25, 2011*
3.1	Certificate of Designations of the Company, filed with the Secretary of State of Delaware on May 17, 2011**
3.2	Certificate of Merger, filed with the Secretary of State of Delaware on May 17, 2011, by and between Radius Health, Inc. and RHI Merger Corp.**
3.3	Certificate of Ownership relating to the merger of Radius Health, Inc. with and into MPM Acquisition Corp.**
3.4	Certificate of Incorporation, as filed with the Delaware Secretary of State on February 4, 2008***
3.5	By-Laws***
4.1	Amended and Restated Stockholders' Agreement, dated May 17, 2011, by and among the Company, as successor to Radius Health, Inc., and the Stockholders listed therein**
5.1	Opinion of Bingham McCutchen LLP*****
10.1	Clinical Trial Services Agreement and Work Statement NB-1, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S**+
10.2	Stock Issuance Agreement, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S**+
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10.9	Amendment No. 3 to Pharmaceutical Development Agreement, dated June 16, 2010, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie S.A.S.**+
10.10	License Agreement Amendment No. 2, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma S.A.S.**+

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Exhibit No.	Description
10.11	Series A-1 Convertible Preferred Stock Issuance Agreement, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma S.A.S.**+
10.12	Development and Manufacturing Services Agreement, dated October 16, 2007, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+
10.13	Work Order No. 2, dated January 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+
10.14	Amendment No. 3 to Work Order No.2, dated December 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.**+
10.15	Development and Clinical Supplies Agreement, dated June 19, 2009, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
10.16	Amendment No. 1, dated December 31, 2009, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.**+
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10.21	Laboratory Services and Confidentiality Agreement, dated March 31, 2004, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories, Inc.**+
10.22	First Amendment to Laboratory Services and Confidentiality Agreement, dated November 7, 2008, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories, Inc.**+
10.23	Letter of Payment Authorization, dated November 20, 2010, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.**+
10.24	Letter of Payment Authorization, dated February 7, 2011, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.**+
10.25	License Agreement, dated June 29, 2006, by and between the Company, as successor to Radius Health, Inc., and Eisai Co., Ltd.**+

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Exhibit No.	Description
10.26	Series A-1 Convertible Preferred Stock Purchase Agreement, dated April 25, 2011, by and among the Company, as successor to Radius Health, Inc., and the Investors listed therein**
10.27*****	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan, assumed in the Merger**
10.28*****	Radius Health, Inc. First Amendment to 2003 Long-Term Incentive Plan effective as of December 15, 2006, assumed in the Merger**
10.29*****	Radius Health, Inc. Second Amendment to 2003 Long-Term Incentive Plan effective as of March 28, 2008, assumed in the Merger**
10.30*****	Radius Health, Inc. Third Amendment to 2003 Long-Term Incentive Plan effective as of November 14, 2008, assumed in the Merger**
10.31	Radius Health, Inc. 2003 Long-Term Incentive Plan Form of Stock Option Agreement**
10.32*****	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan Stock Option Agreement, dated October 8, 2004, by and between the Company, as successor to Nuvios, Inc., and Richard Lyttle for Option No. 04-103**
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Exhibit No.	Description
10.41*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated February 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 06-02**
10.42*****	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 07-06**
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10.56	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Kurt Graves**
10.57	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Elizabeth Stoner**

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Exhibit No.	Description
10.58	Indemnification Agreement, dated October 12, 2010, by and between the Company, as successor to Radius Health, Inc., and Alan Auerbach**
10.59	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Michael Rosenblatt, M.D.**
10.60	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Christopher Mirabelli**
10.61	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Augustine Lawlor**
10.62	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Edward Mascioli, M.D.**
10.63	Consent to Sublease, dated January 14, 2011, by and among the Company, as successor to Radius Health, Inc., Sonos, Inc., and Broadway/Hampshire Associates Limited Partnership**
10.64	Sublease, dated January 14, 2011, by and between the Company, as successor to Radius Health, Inc., and Sonos, Inc.**
10.65	Amended and Restated Warrant to Purchase Common Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and SVB Financial Group**
10.66*****	Warrant to Purchase Series A-1 Convertible Preferred Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Leerink Swann LLC**
10.67	Amendment No. 1 to Series A-1 Convertible Preferred Stock Purchase Agreement, dated May 11, 2011
10.68	Redemption Agreement, by and between MPM Acquisition Corp. and MPM Asset Management LLC, dated April 25, 2011*
10.69	Loan and Security Agreement, dated May 23, 2011, with General Electric Capital Corporation as agent and a lender, and Oxford Finance LLC as a lender*****
10.70	Promissory Note, dated May 23, 2011, issued by the Company to General Electric Capital Corporation in the principal amount of \$12,500,000*****
10.71	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of \$3,125,000*****
10.72	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of \$9,375,000*****
10.73	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to GE Capital Equity Investments*****
10.74	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to Oxford Finance LLC*****
10.75*****	Amended and Restated Stock Issuance Agreement, dated May 16, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S
23.1	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm

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Exhibit No.	Description
23.2	Consent of Bingham McCutchen (included in Exhibit 5.1)
24.1	Power of Attorney (included in signature pages hereto)

*
Incorporated by reference to the Company's Current Report on Form 8-K filed on April 29, 2011.

**
Incorporated by reference to the Company's Current Report on Form 8-K filed on May 23, 2011.

Incorporated by reference to the Company's Registration Statement on Form 10 filed on April 16, 2008.

Incorporated by reference to the Company's Current Report on Form 8-K filed on May 27, 2011.

Share numbers and per share prices are presented pre-Reverse Split completed by Radius Health, Inc. on May 17, 2011.

To be filed by an amendment.

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Confidential Treatment Requested by the Registrant. Redacted Portion Filed Separately with the Commission.