

REPOS THERAPEUTICS INC.  
Form S-3/A  
December 30, 2009

As filed with the Securities and Exchange Commission on December 30, 2009

Registration No. 333-163510

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

Amendment No. 1  
to  
FORM S-3

REGISTRATION STATEMENT UNDER  
THE SECURITIES ACT OF 1933

Repos Therapeutics 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)

76-0233274  
(I.R.S. Employer  
Identification Number)

2408 Timberloch Place, Suite B-7  
The Woodlands, TX 77380  
(281) 719-3400  
(Address, including zip code, and telephone  
number, including area code, of registrant's  
principal executive offices)

Joseph S. Podolski  
Chief Executive Officer  
Repos Therapeutics Inc.  
2408 Timberloch Place, Suite B-7  
The Woodlands, TX 77380  
(281) 719-3400

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

Copies to:

Jeffrey R. Harder, Esq.  
Winstead PC  
24 Waterway Avenue, Suite 500  
The Woodlands, TX 77380  
(281) 681-5900

Approximate date of commencement of proposed sale to the public:  
From time to time after the effective date of this Registration Statement.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

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, other than securities offered only in connection with dividend or interest reinvestment plans, 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 registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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

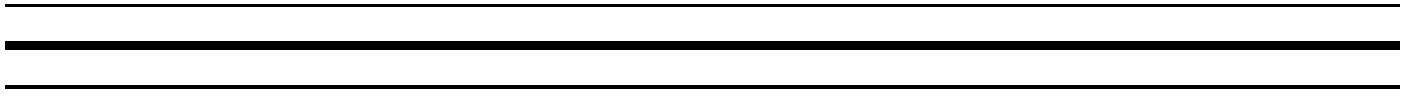
Large accelerated filer  Accelerated filer   
 Non-accelerated filer  (Do not check if a smaller reporting company) Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered	Proposed Offering Price Per Share(1)	Proposed Maximum Aggregate Offering Price(1)	Amount of Registration Fee(1)
Common Stock, par value \$.001 per share	5,361,194	\$ 0.71	\$ 3,806,447.74	\$ 212.40

(1) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(c) under the Securities Act and based on the average high and low prices per share of common stock on December 2, 2009 as reported on the Nasdaq Global Market.

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 that 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.



Information contained herein is subject to completion or amendment. A registration statement relating to these securities has been filed with the Securities and Exchange Commission. These securities may not be sold nor may offers to buy be accepted prior to the time the registration statement becomes effective. This prospectus shall not constitute an offer to sell or the solicitation of an offer to buy nor shall there be any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction.

Subject to completion. Dated December 30, 2009.

## PROSPECTUS

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Up to 5,361,194 Shares

### Common Stock

From time to time, certain selling stockholders of Repros Therapeutics Inc. ("the Company", "Repos," or "we," "us" or "our") may offer and sell up to 5,361,194 shares of common stock issued to such selling stockholders in connection with the Settlement Agreement described in "Recent Developments – Settlement with Trade Creditors" below.

Our common stock is quoted on the Nasdaq Global Market under the trading symbol "RPRX." On December 29, 2009, the last reported sale price of our common stock on the Nasdaq Global Market was \$0.70 per share.

The selling stockholders may offer and sell any of the shares of common stock from time to time at fixed prices, at market prices or at negotiated prices, and may engage a broker, dealer or underwriter to sell the shares. For additional information on the possible methods of sale that may be used by the selling stockholders, you should refer to the section entitled "Plan of Distribution" beginning on page 10 of this prospectus. We will not receive any proceeds from the sale of the shares of common stock by the selling stockholders. We will pay all expenses incurred in effecting the registration statement of which this prospectus constitutes a part.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR DETERMINED IF THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

INVESTING IN OUR SECURITIES INVOLVES A HIGH DEGREE OF RISK. YOU SHOULD CAREFULLY CONSIDER THE "RISK FACTORS" CONTAINED IN OUR ANNUAL REPORT ON FORM 10-K FOR THE FISCAL YEAR ENDED DECEMBER 31, 2008, UPDATES IN PART II ITEM 1A OF OUR FORM 10-Q FILINGS AND IN OUR FUTURE FILINGS MADE WITH THE SECURITIES AND EXCHANGE COMMISSION, WHICH ARE INCORPORATED BY REFERENCE IN THIS PROSPECTUS. SEE THE SECTION ENTITLED "RISK FACTORS" ON PAGE 5 OF THIS PROSPECTUS.

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The date of this prospectus is December 30, 2009



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Opinion of Winstead PC

Consent of PricewaterhouseCoopers LLP

We have not authorized any dealer, salesman or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and the accompanying supplement to this prospectus. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or the accompanying prospectus supplement. This prospectus and the accompanying supplement to this prospectus do not constitute an offer to sell or the solicitation of an offer to buy common stock, nor do this prospectus and the accompanying supplement to this prospectus constitute an offer to sell or the solicitation of an offer to buy common stock in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and the accompanying prospectus supplement is accurate on any date subsequent to the date set forth on the front of the document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or common stock sold on a later date.



## ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, whereby certain selling stockholders may offer to sell up to 5,361,194 shares of common stock issued to such selling stockholders in connection with the Settlement Agreement described in “Recent Developments – Settlement with Trade Creditors” below.

This prospectus provides you with a general description of the securities the selling stockholders may offer. We may provide a prospectus supplement to add, update or change any of the information contained in this prospectus. This prospectus, together with applicable prospectus supplements, includes all material information relating to this offering. If there is any inconsistency between the information in this prospectus and the information in the accompanying prospectus supplement, you should rely on the information in the prospectus supplement.

Please carefully read both this prospectus and any prospectus supplement together with the additional information described below under “Where You Can Find More Information.”

Unless otherwise mentioned or unless the context requires otherwise, all references in this prospectus to “the Company,” “Repros,” “we,” “us,” “our” or similar references mean Repros Therapeutics Inc.

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## ABOUT REPROS THERAPEUTICS INC.

### Overview

The Company was organized as a Delaware corporation on August 20, 1987. We are a development stage biopharmaceutical company focused on the development of oral small molecule drugs for major unmet medical needs associated with male and female reproductive disorders. The clinical trials relating to Proellex® have been placed on clinical hold by the FDA due to safety-related concerns resulting from elevated liver enzymes in a number of patients enrolled in the clinical trials. Completion of our ongoing clinical trial activities relating to our other product candidate, Androxal®, is subject to, among other things, adequate cash being available.

As of September 30, 2009, we had accumulated losses of \$173.1 million, approximately \$2.5 million in cash and cash equivalents, and our accounts payable and accrued expenses were approximately \$12.2 million. As a result of the October 29, 2009 settlement agreement with certain of our creditors to issue them shares of our common stock and cash as payment in full for our then-outstanding liabilities with such creditors (See “Recent Developments – Settlement with Trade Creditors” below), subsequent to September 30, 2009, we have reduced the amount of our accounts payable and accrued expenses by approximately \$8.7 million. Notwithstanding, the amount of cash on hand is not sufficient to continue to fund our ongoing clinical trials of Androxal®, complete all necessary activities relating to the suspension of our clinical trial program for Proellex®, and pay our accounts payable and accrued expenses as well as our normal corporate overhead and expenses. The foregoing and other matters raise substantial doubt about our ability to continue as a going concern.

We continue to explore potential additional financing alternatives that may allow us to maintain our current reduced level of operations; however, there can be no assurance that we will be successful in raising any such additional funds on a timely basis or at all. Significant additional capital will be required for us to continue development of either of our product candidates. Failure to raise sufficient funds before the second quarter of 2010 will likely result in the



filing of bankruptcy and dissolution of the Company.

Our current product candidates consist of the following:

Androxal® (male reproductive health)

We believe our product candidate for male reproductive health, Androxal®, is a new chemical entity. Androxal® is a single isomer of clomiphene citrate and is an orally active proprietary small molecule compound.

We are developing Androxal® for men of reproductive age with low testosterone levels who want to maintain their fertility while being treated for their low testosterone condition. During the second quarter of 2008, we initiated a Phase 2b proof-of-concept clinical trial in which we are monitoring the effects of Androxal® on male fertility and testicular function in patients being treated for low testosterone as compared to Testim®, a popular marketed topical testosterone medication. On October 6, 2009 we announced that Androxal was able to maintain sperm counts in men being treated for their low testosterone levels. Testim® resulted in suppressed sperm levels while men were being treated with that topical gel. We recently submitted a request for a Type C meeting with the FDA and expect to hold a meeting with the FDA in late January, 2010, provided that sufficient funds can be raised to continue development of this product. Given that there is currently an acceptable treatment regimen for men with low testosterone, there is significant uncertainty as to whether or not an additional approach such as Androxal® would be approved by the FDA or accepted in the market. At this time it is too early in the clinical development process to estimate when or even if an NDA for Androxal® will be submitted for this indication.

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In April 2008, we submitted a White Paper, based on the results from a previously conducted non-pivotal Phase 2 clinical trial with Androxal® for the treatment of testosterone deficiency due to secondary hypogonadism, to the FDA's Division of Reproductive and Urology Products. The data demonstrated that in subjects with serum glucose levels of greater than 105 mg/dL, there was a statistically significant reduction in fasting serum glucose and a higher response rate in the treatment group with Androxal® as compared with groups receiving either placebo or Androgel®, the current standard of care for the treatment of testosterone deficiency. In November 2008, after the FDA reviewed this paper we received guidance suggesting that we open a new IND with the Division of Metabolic and Endocrine Products, or DMEP, for the investigation of Androxal® as a potential treatment for type 2 diabetes. Provided that sufficient cash is available, we plan to submit a new IND for this indication to the DMEP in the fourth quarter of 2009. Should we raise adequate funds to continue our operations, we anticipate conducting a Phase 2b proof-of-concept clinical trial with Androxal® for glucose regulation after receiving additional feedback from the FDA. At this time it is too early in the clinical development process to estimate when or even if a NDA for Androxal® will be submitted for this indication. The plan to develop Androxal® in this new indication replaces our previously announced plan to develop Androxal® in men with adult-onset idiopathic hypogonadotropic hypogonadism, or AIHH, with concomitant plasma glucose and lipid elevations, all of which are components of Metabolic Syndrome.

We were previously developing Androxal® in the United States to treat testosterone deficiency due to secondary hypogonadism by restoring normal testosterone production in males with functional testes and diminished pituitary function, a common condition in the aging male. After a Type "C" meeting held with the FDA on October 15, 2007, we believed that there was no clear clinical path to develop Androxal® for this indication in the U.S. Androxal® might be developed outside of the U.S. for this indication if our future financial resources are sufficient.

#### Proellex® (female reproductive health)

Proellex®, our product candidate for female reproductive health, is a new chemical entity that acts as a selective blocker of the progesterone receptor and is being developed for the treatment of symptoms associated with uterine fibroids and endometriosis. However, as a result of the recent liver toxicity exhibited by Proellex®, all ongoing clinical trial activities have been put on hold by the FDA. There is currently no FDA-approved orally administered drug treatment for the long-term treatment of uterine fibroids or endometriosis.

Our estimates regarding the timing of our Proellex® clinical development program are completely on hold at this time in light of the FDA clinical hold and our recent discontinuation of ongoing clinical trials. In addition, any future development efforts are totally dependent on our ability to raise sufficient capital or find an appropriate partner to proceed and on decisions by the FDA regarding the current clinical hold on Proellex® clinical trials. If the FDA were to lift the clinical hold on Proellex®, and if the FDA requires a lower dosage of Proellex® to be used for future clinical trials, the Company would be required to commence Phase 2 studies again with the required lower dosage, thereby resulting in extensive additional costs and delays. The length of time required to complete Phase 1, Phase 2 and Phase 3 clinical trials and long-term Open Label Safety Trials may vary substantially according to factors relating to the particular trial, such as the type and intended use of the drug candidate, the clinical, trial design and the ability to enroll suitable patients. We have also, in the past, had difficulty recruiting patients into our Proellex® clinical trials primarily due to the various test procedures that are required, including multiple endometrial biopsies. Recruiting patients would likely be even more difficult due to the recent liver toxicity exhibited by Proellex®.

#### Business Strategy

Provided we are able to obtain sufficient funds to continue our business, we plan to focus our clinical program on Androxal® to determine if a clear clinical path can be realized with the FDA.

Should the FDA permit the resumption of the Proellex® clinical trials, we will assess whether there are sufficient funds available to continue development ourselves of such product candidate or whether such program would be more appropriately funded by a corporate partner. Therefore, we will continue to explore corporate partnering opportunities for assistance in the clinical development funding and commercialization of our products, as appropriate; however, there can be no assurance that a corporate partnering opportunity will be found.

## Risks Affecting Us

Our business is subject to numerous risks as discussed more fully in “Risk Factors” below. We are exploring various financing alternatives to address our short term liquidity needs. No assurance can be given that we will be successful in obtaining financing on acceptable terms or at all. We anticipate that if we are able to secure financing, that such financing will result in significant dilution of the ownership interests of our current stockholders and may provide certain rights to the new investors senior to the rights of our current stockholders, including but not limited to voting rights and rights to proceeds in the event of a sale or liquidation of the Company. In the event that we are unable to obtain adequate financing to meet our short term liquidity needs, we will pursue other options, including but not limited to, reductions of expenses, sale of the Company, sale or license of a portion or all of our assets, a bankruptcy filing or the liquidation of the Company.

In addition, we have recently suspended dosing in the clinical trials of Proellex®, have not received regulatory approval for any of our product candidates, have not successfully earned any significant commercial revenues from any of our product candidates and may never launch either of our product candidates. If we cannot resume dosing in the clinical trials of Proellex® or do not successfully commercialize any of our product candidates, we will be unable to achieve our business objectives. In addition, the reported results of our clinical trials completed to date may not be indicative of results that will be achieved in later-stage clinical trials involving larger and more diverse patient populations. As of September 30, 2009, we had an accumulated deficit of approximately \$173.1 million, accounts payable and accrued expenses of approximately \$12.2 million and cash and cash equivalents of approximately \$2.5 million. As a result of the October 29, 2009 settlement agreement with certain of our creditors to issue them shares of our common stock and cash as payment in full for our then-outstanding liabilities with such creditors (as described below) we have reduced the amount of our accounts payable and accrued expenses by approximately \$8.7 million. Notwithstanding, there is a substantial doubt about our ability to continue as a going concern and we expect to continue to incur significant losses over the next several years, and we may never become profitable. Our financial statements do not include any adjustments that might result from the outcome of these uncertainties.

## Corporate Information

Our principal executive offices are located at 2408 Timberloch Place, Suite B-7, The Woodlands, Texas, 77380, and our telephone number is (281) 719-3400. We maintain an internet website at [www.reprosrx.com](http://www.reprosrx.com). The information on our website or any other website is not incorporated by reference into this prospectus supplement and does not constitute a part of this prospectus supplement. Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K and all amendments to such reports are made available free of charge through the Investor Relations section of our website as soon as reasonably practicable after they have been filed or furnished with the Securities and Exchange Commission.

## Recent Developments

### General

On September 11, 2009, we completed a direct registered offering of 1.5 million shares of our common stock at a purchase price of \$0.65 per share for aggregate proceeds after expenses of approximately \$869,000. On October 13, 2009, we completed a direct registered offering of 3.5 million shares of our common stock at a purchase price of \$1.27 per share for aggregate proceeds after expenses of approximately \$4.1 million. Such registered direct offerings resulted in an aggregate of approximately \$5.0 million net proceeds to us. The shares of common stock offered by us in such offerings were registered under our prior shelf registration statement on Form S-3 (File No. 333-155265), which was filed with the Securities and Exchange Commission on November 10, 2008 and declared effective by the

Securities and Exchange Commission on November 26, 2008.

On October 29, 2009, Katherine A. Anderson was engaged as the Chief Accounting Officer of the Company.

Effective October 29, 2009, Dr. Paul Lammers, resigned his position of President.

Effective October 30, 2009, the Company eliminated the position of Senior Vice President of Regulatory and Clinical Affairs held by Dr. Andre van As. The Company is obligated to pay Dr. van As, under his employment contract, salary and benefits for six months. Dr. Jean Fourcroy, member of the Company's Board of Directors and former Medical Officer at the FDA's Division of Reproductive and Urological Products, has agreed to serve as Company's Chief Medical Officer on an as needed basis.

On November 6, 2009, the Company received notification from the NASDAQ Stock Market that it has not regained compliance with NASDAQ Listing Rules 5450(b)(2)(A) or 5450(b)(3)(A) and, as a result, its securities will be delisted from the NASDAQ Global Market. Pursuant to the NASDAQ procedural rules, the Company appealed such determination and on December 3, 2009, an oral hearing was held to determine whether its securities will continue to be listed on the NASDAQ Global Market. At such hearing the Company requested that its securities be moved to the NASDAQ Capital Market if the appeal is not successful. On December 15, 2009, the Company received another notification from the NASDAQ Stock Market that it has not regained compliance with NASDAQ Listing Rule 5450(b)(2)(C), which further subjects the Company's securities to delisting from the NASDAQ Stock Market as a result of the market value of its publicly-held shares being below \$15 million. The Company previously addressed the deficiency associated with such Listing Rule in its December 3rd oral hearing and is awaiting the decision from NASDAQ Listing Qualifications Panel regarding such deficiency. There can be no assurance that our appeal will be successful to remain on the NASDAQ Global Market or that the Company will be allowed to move its securities to the NASDAQ Capital Market.

On December 15, 2009, the Company also received notice from NASDAQ that its securities did not meet the minimum \$1 bid price requirement and that its securities would be delisted if such price was not met, for 10 continuous trading days, within six months of such letter. The Company anticipates that it will have some developments relating to its product candidates on or before such date that could result in the stock price moving above \$1 per share, however, there can be no assurance that such result will be successful in achieving compliance with such rule by such date.

On November 12, 2009, Dr. Jaye Thompson was appointed to our board of directors and to serve as a member of the audit committee of our board of directors.

On November 12, 2009, Mark Lappe resigned his position as a member of the Company's board of directors and chairperson of the board of directors. Nola E. Masterson, a member of the Company's board of directors since 2004, has been appointed as chairperson of the Company's board of directors.

On November 16, 2009, our board of directors elected Joseph S. Podolski as President of the Company.

On November 17, 2009, our stockholders approved an amendment to our Restated Certificate of Incorporation, as amended, to increase the number of authorized shares of our common stock from 30 million to 75 million.

#### Settlement with Trade Creditors

On October 29, 2009, we entered into a Master Settlement Agreement and Releases (the "Settlement Agreement") with certain trade creditors, pursuant to which we issued 5,361,194 shares of our common stock, at \$1.10 per share, and paid approximately \$2.77 million in cash to such creditors as payment in full for our then-outstanding liabilities of approximately \$8.7 million and for the release of the claims held by and the dismissal of the litigation commenced by such creditors against the Company. Under the Settlement Agreement, we agreed to use our best efforts to prepare and file a registration statement to register such shares issued to the creditors, to use our best efforts to have such registration statement declared effective as soon as possible, and to maintain such registration statement until all such shares registered thereunder to the creditors have been sold or for a period of one year, whichever comes first. We also agreed to refrain from (i) filing any other registration statement for any primary public offering or other offering of our equity securities prior to filing such registration statement with the Securities and Exchange Commission and (ii) selling any shares for any primary public offering or other offering of our equity securities during the ten business days immediately following the effective date of such registration statement, in order to provide such creditors an opportunity to sell their shares issued under the Settlement Agreement.



## RISK FACTORS

Investment in our securities involves a high degree of risk. You should consider carefully the risk factors in any prospectus supplement and in our Annual Report on Form 10-K for the fiscal year ended December 31, 2008, updates in Part II, Item 1A of our Form 10-Q filings, and in our future filings with the Securities and Exchange Commission, as well as other information in this prospectus and any prospectus supplement and the documents incorporated by reference herein or therein, before purchasing any of our securities. Each of the risk factors could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our securities.

## FORWARD-LOOKING INFORMATION

Some of the statements contained (i) in this prospectus and any accompanying prospectus supplement or (ii) incorporated by reference into this prospectus are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, and are subject to the safe harbor created by the Securities Litigation Reform Act of 1995. Examples of these forward-looking statements include, but are not limited to:

§ our ability to continue as a going concern and to raise additional capital before the second quarter of 2010 on acceptable terms or at all;

§ our ability to successfully defend the recently filed class action lawsuits;

§ our ability to maintain the Company's listing on the Nasdaq Global Market;

§ whether a clear clinical path for Androxal® can be realized;

§ the removal of the current clinical hold on further clinical trials for Proellex® by the Food and Drug Administration, or FDA, and the reestablishment of safe dosing in clinical trials for Proellex®;

§ having available funding for the continued development of Proellex® and Androxal®;

§ uncertainty related to our ability to obtain approval of our products by the FDA and regulatory bodies in other jurisdictions;

§ uncertainty relating to our patent portfolio;

§ market acceptance of our products and the estimated potential size of these markets;

§ dependence on third parties for clinical development and manufacturing;

§ dependence on a limited number of key employees;

§ competition and risk of competitive new products;

§ volatility in the value of our common stock;

§ volatility in the financial markets generally; and



§ any other risks and uncertainties described in the Company's filings with the Securities and Exchange Commission.

While these forward-looking statements made by us are based on our current intent, beliefs and judgments, they are subject to risks and uncertainties that could cause actual results to vary from the projections in the forward-looking statements. You should consider the risks below carefully in addition to other information contained in this report before engaging in any transaction involving our securities. If any of these risks occur, they could seriously harm our business, financial condition or results of operations. In such case, the trading price of our common stock could decline, and you may lose all or part of your investment.

In addition, in this prospectus, any prospectus supplement and the documents incorporated by reference into this prospectus, the words “believe,” “should,” “predict,” “future,” “may,” “will,” “estimate,” “continue,” “anticipate,” “intend,” “potential,” “continue,” or “opportunity,” or other words and terms of similar meaning, as they relate to us, our business, future financial or operating performance or our management, are intended to identify forward-looking statements. Any forward-looking statement speaks only as of the date on which it is made, and we undertake no obligation to update or revise any forward-looking statement to reflect events or circumstances after the date on which the statement is made or to reflect the occurrence of unanticipated events. New factors emerge from time to time, and it is not possible for us to predict which factors will arise. In addition, we cannot assess the impact of each factor on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements. Past financial or operating performance is not necessarily a reliable indicator of future performance and you should not use our historical performance to anticipate results or future period trends.

USE OF PROCEEDS

We will not receive any of the proceeds from the sale of the shares by the selling stockholders.

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## SELLING STOCKHOLDERS

Since October 29, 2009, we entered into the Settlement Agreement described in “Recent Developments – Settlement with Trade Creditors” above, pursuant to which we issued 5,361,194 shares of our common stock to certain vendors, the selling stockholders under this prospectus. This prospectus relates to the resale from time to time of up to a total of 5,361,194 shares of common stock by the selling stockholders.

Pursuant to the terms of the Settlement Agreement relating to such issuances, we filed a Registration Statement on Form S-3, of which this prospectus constitutes a part, in order to permit the selling stockholders to resell to the public any or all of the shares of our common stock issued in connection therewith. When we refer to the “selling stockholders” in this prospectus, we mean the entities listed in the table below, as well as their transferees, pledgees or donees or its respective successors.

The following table, to our knowledge, sets forth information regarding the beneficial ownership of our common stock by the selling stockholders as of December 3, 2009 and the number of shares being offered hereby by the selling stockholders. The information is based in part on information provided by or on behalf of the selling stockholders. Beneficial ownership is determined in accordance with Rule 13d-3 promulgated by the Securities and Exchange Commission under the Securities Exchange Act of 1934, as amended, or the Exchange Act, and includes voting or investment power with respect to shares, as well as any shares as to which the selling stockholders have the right to acquire beneficial ownership within sixty (60) days after December 3, 2009 through the exercise or conversion of any stock options, warrants, convertible debt or otherwise. Unless otherwise indicated below, the selling stockholders have sole voting and investment power with respect to their shares of common stock. The inclusion of any shares in this table does not constitute an admission of beneficial ownership by the selling stockholders. We will not receive any of the proceeds from the sale of our common stock by the selling stockholders.

The actual number of shares of common stock that may be sold by the selling stockholders will be determined by the selling stockholders. Because the selling stockholders may sell all, some or none of the shares of common stock which they hold, no estimate can be given as to the number of shares of common stock that will be held by the selling stockholders after completion of the sales. The information set forth in the following table regarding the beneficial ownership after resale of shares is based on the assumption that the selling stockholders will sell all of their shares of common stock covered by this prospectus.

Name of Selling Stockholder	Shares Beneficially Owned Before Offering(1)		Shares Offered Hereby	Shares Beneficially Owned After Offering(1)	
	Number	Percent		Number	Percent
ACM Medical Laboratory, Inc.(2)	289,409	1.1%	289,409	—	—
Advances in Health, Inc.(3)	229,856	*	229,856	—	—
Compleware Corporation(4)	776,643	3.0%	776,643	—	—
Comprehensive Clinical Trials LLC(5)	79,924	*	79,924	—	—
Impact Clinical Trials, Inc.(6)	118,142	*	118,142	—	—
IntegReview Holding Co, LLP(7)	109,459	*	109,459	—	—
inVentiv Clinical Solutions, LLC(8)	1,532,078	6.0%	1,532,078	—	—
Pharm-Olam International, Ltd(9)	382,243	1.5%	382,243	—	—
ZeeCRO, Inc.(10)	1,843,440	7.2%	1,843,440	—	—

\* Does not exceed 1%.

(1) The percentage of shares beneficially owned prior to the offering is based on 25,538,598 shares of our common stock issued and outstanding as of December 3, 2009 and the percentage of shares beneficially owned after the offering is based on the same number of shares and assumes the issuance of the shares offered by each particular selling stockholder.

(2) ACM Medical Laboratory, Inc. (“ACM”) shares voting and dispositive power with respect to all of the shares listed above with (i) PRH Inc. (“PRH”), which is the controlling stockholder of ACM, and (ii) Unity Health System, a not for profit corporation (“UHS”), which is the controlling person of PRH. As controlling persons, PRH and UHS may be deemed to beneficially own the shares listed above. ACM’s address is 160 Elm Grove Park, Rochester, New York 14624.

- (3) Advances in Health, Inc. (“AIH”) shares voting and dispositive power with Alfred and Melissa Poindexter, who are spouses and collectively own all of the outstanding shares of stock in AIH. As sole stockholders, Alfred and Melissa Poindexter may be deemed to beneficially own the shares listed above. AIH’s address is 7515 South Main, Suite 360, Houston, Texas 77030.
- (4) CompleWare Corporation (“CompleWare”) shares voting and dispositive power with John M. Weiler and Kay Weiler, who collectively own a controlling interest in CompleWare. As controlling persons, Mr. and Mrs. Weiler may be deemed to beneficially own the shares listed above. CompleWare’s address is 2865 Stoner Court, North Liberty, Iowa 52317.
- (5) Comprehensive Clinical Trials LLC (“CCT”) shares voting and dispositive power with Ronald T. Ackerman, M.D., who is the controlling stockholder of CCT. As controlling stockholder, Dr. Ackerman may be deemed to beneficially own the shares listed above. CCT’s address is 2861 Long Meadow Drive, Wellington, Florida 33414.
- (6) Impact Clinical Trials, Inc. (“Impact”) shares voting and dispositive power with Lydie Hazan, M.D., who is the sole stockholder, president and chief executive officer of Impact. As sole stockholder, president and chief executive officer, Dr. Hazan may be deemed to beneficially own the shares listed above. Impact’s address is 5800 Wilshire Boulevard, Los Angeles, California 90036.
- (7) IntegReview Holding Co, LLP (“IntegReview”) shares voting and dispositive power with Lynn Meyer, who is the managing partner of IntegReview. As the managing partner, Ms. Meyer may be deemed to beneficially own the shares listed above. IntegReview’s address is 3001 South Lamar Boulevard, Suite 210, Austin, Texas 78704.
- (8) inVentiv Clinical Solutions, LLC (“inVentiv”) is a publicly-owned company. inVentiv’s address is 500 Atrium Drive, Somerset, New Jersey 08873.
- (9) Pharm-Olam International, Ltd (“Pharm”) shares voting and dispositive power with Dr. Zev Munk and Eugene Barg, each of whom is a partner of Pharm. As partners, Dr. Munk and Mr. Barg may be deemed to beneficially own the shares listed above. Pharm’s address is 450 North Sam Houston Parkway East, Suite 250, Houston, Texas 77060.
- (10) ZeeCRO, Inc.’s address is 1001 Winstead Drive, Suite 455, Cary, North Carolina 27513.

## PLAN OF DISTRIBUTION

The common stock to be offered and sold using this prospectus are being registered to permit public secondary trading of such common stock by the selling stockholders from time to time after the date of this prospectus. We will not receive any of the proceeds from the sale by the selling stockholders of the common stock offered by this prospectus. The aggregate proceeds to the selling stockholders from the sale of the common stock will be the purchase price of the common stock less any discounts and commissions. A selling stockholder reserves the right to accept and, together with its agents, to reject, any proposed purchases of common stock to be made directly or through agents.

The common stock may be sold from time to time to purchasers directly by the selling stockholders and their successors, which includes their transferees, pledgees or donees or their successors, or through underwriters, broker-dealers or agents who may receive compensation in the form of discounts, concessions or commissions from the selling stockholders or the purchasers of the common stock. These discounts, concessions or commissions may be in excess of those customary in the types of transactions involved.

The selling stockholders and any underwriters, broker-dealers or agents who participate in the distribution of the common stock may be “underwriters” within the meaning of the Securities Act. None of the selling stockholders has represented to us that it is a broker-dealer or an affiliate of a broker-dealer. If the selling stockholders are deemed to be underwriters, such selling stockholders may be subject to certain statutory liabilities of the Securities Act and the Exchange Act.

We will pay all expenses of the registration of the common stock pursuant to the Settlement Agreement, including, without limitation, Securities and Exchange Commission filing fees and expenses of compliance with state securities or “blue sky” laws; provided, however, that if the common stock is sold through underwriters, broker dealers or agents, the selling stockholders will be responsible for underwriting discounts or commissions or agent’s commissions.

## LEGAL MATTERS

The validity of the securities being offered hereby will be passed upon by Winstead PC, The Woodlands, Texas. Jeffrey R. Harder, a member of the law firm Winstead PC, beneficially owned as of December 3, 2009, an aggregate of 11,899 shares of our common stock. Mr. Harder also holds options to purchase 52,500 shares of our common stock.

## EXPERTS

The consolidated financial statements and management's assessment of the effectiveness of internal control over financial reporting (which is included in Management's Report on Internal Control over Financial Reporting) incorporated in this prospectus by reference to the Annual Report on Form 10-K for the year ended December 31, 2008 have been so incorporated in reliance on the report (which contains an explanatory paragraph relating to the Company's ability to continue as a going concern as described in Note 1 to the consolidated financial statements) of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

## WHERE YOU CAN FIND MORE INFORMATION

We are a reporting company and file annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission. We have filed with the Securities and Exchange Commission a registration statement on Form S-3 under the Securities Act with respect to the common stock the selling stockholders are offering under this prospectus. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the common stock the selling stockholders are offering under this prospectus, we refer you to the registration statement and the exhibits filed as a part of the registration statement. You may read and copy the registration statement, as well as our reports, proxy statements and other information, at the Securities and Exchange Commission's public reference room at 100 F Street, N.E., Room 1580, Washington, D.C. 20549. You can request copies of these documents by writing to the Securities and Exchange Commission and paying a fee for the copying cost. Please call the Securities and Exchange Commission at 1-800-SEC-0330 for more information about the operation of the public reference room. Our Securities and Exchange Commission filings are also available at the Securities and Exchange Commission's website at <http://www.sec.gov>.

The Securities and Exchange Commission allows us to "incorporate by reference" information that we file with it, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. Information in this prospectus supersedes information incorporated by reference that we filed with the Securities and Exchange Commission prior to the date of this prospectus, while information that we file later with the Securities and Exchange Commission will automatically update and supersede this information. We incorporate by reference into this registration statement and prospectus the documents listed below and any future filings we will make with the Securities and Exchange Commission under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, after the date of the initial registration statement but prior to effectiveness of the registration statement and after the date of this prospectus but prior to the termination of the offering of the securities covered by this prospectus, except in each case for information contained in any such filing where we indicate that such information is being furnished and is not to be considered "filed" under the Securities Exchange Act of 1934, as amended.

The following documents filed with the Securities and Exchange Commission are incorporated by reference in this prospectus:

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our Annual Report on Form 10-K for the year ended December 31, 2008 filed with the Securities and Exchange Commission on March 16, 2009;

§ our Quarterly Reports on Form 10-Q for the quarters ended March 31, June 30, 2009 and September 30, 2009 filed with the Securities and Exchange Commission on May 11, August 17, and November 9, 2009, respectively, as amended by our Quarterly Report on Form 10-Q/A for the quarter ended June 30, 2009 filed with the Securities and Exchange Commission on August 18, 2009;

§ our Current Reports on Form 8-K (other than information furnished rather than filed), filed with the Securities and Exchange Commission on January 13, 2009, January 27, 2009, February 3, 2009, February 24, 2009, March 9, 2009, March 12, 2009, March 16, 2009, March 17, 2009, March 20, 2009, April 20, 2009, May 11, 2009, May 20, 2009, May 27, 2009, June 8, 2009, July 2, 2009, July 8, 2009, July 10, 2009, July 23, 2009, August 3, 2009, August 7, 2009, August 11, 2009, August 18, 2009, September 10, 2009, September 21, 2009, September 30, 2009, October 14, 2009, November 3, 2009, November 9, 2009, November 10, 2009, November 17, 2009, November 19, 2009 and December 21, 2009, as amended by our Current Report on Form 8-K/A filed with the Securities and Exchange Commission on December 22, 2009 and

§ the description of our common stock contained in our registration statement on Form 8-A filed with the Securities and Exchange Commission on February 2, 1993, including all amendments and reports filed for the purpose of updating such information.

Information furnished to the Securities and Exchange Commission under Item 2.02 or Item 7.01 in Current Reports on Form 8-K, and any exhibit relating to such information, filed prior to, on or subsequent to the date of this prospectus is not incorporated by reference into this prospectus.

We will furnish without charge to you, upon written or oral request, a copy of any or all of the documents incorporated by reference, including exhibits to these documents. You should direct any requests for documents to Repros Therapeutics Inc., Attention: Secretary, 2408 Timberloch Place, Suite B-7, The Woodlands, Texas 77380. Our telephone number is (281) 719-3400.

## PART II

## INFORMATION NOT REQUIRED IN THE PROSPECTUS

## Item 14. Other Expenses of Issuance and Distribution

The following table sets forth the estimated costs and expenses, other than the underwriting discounts and commissions, payable by the registrant in connection with the offering of the securities being registered. All the amounts shown are estimates, except for the registration fee.

Securities and Exchange Commission registration fee	\$	212
Accounting fees and expenses		10,000
Legal fees and expenses		10,000
Printing, transfer agent and miscellaneous expenses		10,000
	Total:	\$ 30,212

## Item 15. Indemnification of Officers and Directors

Section 145 of the Delaware General Corporation Law, or Delaware law, inter alia, empowers a Delaware corporation to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than an action by or in the right of the corporation) by reason of the fact that such person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him in connection with such action, suit or proceeding if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his conduct was unlawful. Similar indemnity is authorized for such persons against expenses (including attorneys' fees) actually and reasonably incurred in connection with the defense or settlement of any such threatened, pending or completed action or suit if such person acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and provided further that (unless a court of competent jurisdiction otherwise provides) such person shall not have been adjudged liable to the corporation. Any such indemnification may be made only as authorized in each specific case upon a determination by the stockholders or disinterested directors or by independent legal counsel in a written opinion that indemnification is proper because the indemnitee has met the applicable standard of conduct.

Section 145 further authorizes a corporation to purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation or enterprise, against any liability asserted against him and incurred by him in any such capacity, or arising out of his status as such, whether or not the corporation would otherwise have the power to indemnify him under Section 145. We maintain policies insuring our officers and directors against certain liabilities for actions taken in such capacities, including liabilities under the Securities Act of 1933, as amended (the "Securities Act").

Our Restated Certificate of Incorporation and Restated Bylaws require us to indemnify our directors to the fullest extent permitted under Delaware law or any other applicable law in effect, but if such statute or law is amended, we may change the standard of indemnification only to the extent that such amended statute or law permits us to provide broader indemnification rights to our directors. We must indemnify such officers and employees in the same manner and to the same extent that we are required to indemnify our directors under our Restated Certificate of Incorporation and Restated Bylaws. Our Restated Certificate of Incorporation limits the personal liability of a director to us or our

stockholders to damages for breach of the director's fiduciary duty. Pursuant to indemnification agreements we entered into with each of our directors, we are further required to indemnify our directors to the fullest extent permitted under Delaware law and our Restated Bylaws; provided that each such director shall enjoy the greater of (i) the advancement and indemnification rights permitted under our Restated Certificate and Restated Bylaws for directors and officers as of the date of such indemnification agreement or (ii) the benefits so afforded by amendments thereto.

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Item 16. Exhibits and Financial Statement Schedules

(a) Exhibits

Exhibit Number	Identification of Exhibit
3.1(a)	Restated Certificate of Incorporation. Exhibit 3.3 to the Company's Registration Statement on Form SB-2 (No. 33-57728-FW), as amended ("Registration Statement"), is incorporated herein by reference.
3.1(b)	Certificate of Amendment to Restated Certificate of Incorporation. Exhibit 3.1 to the Company's Current Report on Form 8-K dated May 1, 2006 is incorporated herein by reference.
3.1(c)	Certificate of Designation of Series One Junior Participating Preferred Stock dated September 2, 1999. Exhibit A to Exhibit 4.1 to the Company's Registration Statement on Form 8-A as filed with the Commission on September 3, 1999 (the "Rights Plan Registration Statement"), is incorporated herein by reference.
3.1(d)	Certificate of Amendment to Restated Certificate of Incorporation, dated as of December 16, 2008. Exhibit 3.1(d) to the Company's Current Report on Form 8-K dated December 23, 2008 is incorporated herein by reference.
3.1(e)	Certificate of Amendment to Restated Certificate of Incorporation, dated as of November 18, 2009. Exhibit 3.1(e) to the Company's Current Report on Form 8-K dated November 19, 2009 is incorporated herein by reference.
3.2	Restated Bylaws of the Company. Exhibit 3.4 to the Registration Statement is incorporated herein by reference.
4.1	Specimen Common Stock Certificate, \$.001 par value, of the Company. Exhibit 4.1 to the Registration Statement is incorporated herein by reference.
4.2	Rights Agreement dated September 1, 1999 between the Company and Computershare Investor Services LLC (as successor in interest to Harris Trust & Savings Bank), as Rights Agent. Exhibit 4.1 to the Rights Plan Registration Statement is incorporated herein by reference.
4.3	First Amendment to Rights Agreement, dated as of September 6, 2002, between the Company, Harris Trust & Savings Bank and Computershare Investor Services LLC. Exhibit 4.3 to Amendment No. 1 to the Rights Plan Registration Statement on Form 8-A/A as filed with the Commission on September 11, 2002 is incorporated herein by reference.
4.4	Second Amendment to Rights Agreement, dated as of October 30, 2002, between the Company and Computershare Investor Services LLC. Exhibit 4.4 to Amendment No. 2 to the Rights Plan Registration Statement on Form 8-A/A as filed with the Commission on October 31, 2002 is incorporated herein by reference.
4.5	Third Amendment to Rights Agreement, dated as of June 30, 2005, between the Company and Computershare Trust Company, N.A. Exhibit 4.4 to the Company's Current Report on Form 8-K as filed with the Commission on June 30, 2005 is incorporated herein by reference.

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- 4.6 Fourth Amendment to Rights Agreement, dated as of January 9, 2008, between the Company and Computershare Trust Company, N.A. Exhibit 4.5 to the Company's Current Report on Form 8-K as filed with the Commission on January 10, 2008 is incorporated herein by reference.
- 4.7 Fifth Amendment to Rights Agreement, dated as of October 10, 2008, between the Company and Computershare Trust Company, N.A. Exhibit 4.6 to the Company's Current Report on Form 8-K as filed with the Commission on October 10, 2008 is incorporated herein by reference.
- 4.8 Form of Rights Certificate. Exhibit B to Exhibit 4.1 to the Rights Plan Registration Statement is incorporated herein by reference.
- 5.1+ Opinion of Winstead PC.
- 23.1\* Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm.

+ 23.2 Consent of Winstead PC (included in Exhibit 5.1).

+ 24.1 Power of Attorney (included in the signature page of this registration statement when initially filed).

\* Filed herewith.

+ Previously filed.

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Item 17. 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 Securities and Exchange Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent 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; provided, however, that paragraphs (1)(i), (1)(ii) and (1)(iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Securities and Exchange Commission by the registrant pursuant to section 13 or 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of 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 the 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 this offering.

(4) That, for the purpose of determining liability of a registrant under the Securities Act 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;

(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.
- (5) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement 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.

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(6) That: (i) for purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in the form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act of 1933 shall be deemed to be part of the registration statement as of the time it was declared effective; and (ii) for the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus 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.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by a director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in The Woodlands, Montgomery County, State of Texas, on December 30, 2009.

REPROS THERAPEUTICS  
INC.

By: /s/ Joseph S.  
Podolski  
Joseph S. Podolski  
President and Chief  
Executive Officer

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Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

Signatures	Title	Date
/s/ Joseph S. Podolski Joseph S. Podolski	President and Chief Executive Officer and Director	December 30, 2009
/s/ Katherine A. Anderson Katherine A. Anderson	Principal Financial Officer and Chief Accounting Officer	December 30, 2009
* Daniel F. Cain	Director	December 30, 2009
* Jean L. Fourcroy, M.D., Ph.D., M.P.H.	Director	December 30, 2009
* Jaye Thompson, Ph.D	Director	December 30, 2009
* Nola Masterson	Chairman of the Board	December 30, 2009
/s/ Joseph S. Podolski * By: Attorney-in-fact		December 30, 2009

INDEX TO EXHIBITS

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3.1(c)	Certificate of Designation of Series One Junior Participating Preferred Stock dated September 2, 1999. Exhibit A to Exhibit 4.1 to the Company's Registration Statement on Form 8-A as filed with the Commission on September 3, 1999 (the "Rights Plan Registration Statement"), is incorporated herein by reference.
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4.3	First Amendment to Rights Agreement, dated as of September 6, 2002, between the Company, Harris Trust & Savings Bank and Computershare Investor Services LLC. Exhibit 4.3 to Amendment No. 1 to the Rights Plan Registration Statement on Form 8-A/A as filed with the Commission on September 11, 2002 is incorporated herein by reference.
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4.6	

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Fourth Amendment to Rights Agreement, dated as of January 9, 2008, between the Company and Computershare Trust Company, Inc. (as successor in interest to Computershare Investor Services, LLC). Exhibit 4.5 to the Company's Current Report on Form 8-K as filed with the Commission on January 10, 2008 is incorporated herein by reference.

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- 23.1\* Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm.

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\* Filed herewith.

+ Previously filed.

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