

**Prospectus Supplement No. 1
(To Prospectus dated April 28, 2008)**

NOVELOS THERAPEUTICS, INC.

12,000,000 shares of common stock

This prospectus supplement supplements the Prospectus dated April 28, 2008, relating to the resale of 12,000,000 shares of our common stock. This prospectus supplement should be read in conjunction with the Prospectus.

Quarterly Report on Form 10-Q

On May 14, 2008, we filed with the Securities and Exchange Commission our Quarterly Report on Form 10-Q for the quarter ended March 31, 2008. The text of the Form 10-Q is attached hereto.

**Investing in our common stock involves a high degree of risk.
See Risk Factors beginning on page 6 of the Prospectus.**

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed on the adequacy or accuracy of this prospectus supplement. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is May 15, 2008

U.S. SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

[mark one]

QUARTERLY REPORT UNDER SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended: March 31, 2008

TRANSITION REPORT UNDER SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number 333-119366

NOVELOS THERAPEUTICS, INC.

(Exact name of small business issuer as specified in its charter)

DELAWARE

(State or other jurisdiction of
incorporation or organization)

04-3321804

(IRS Employer
Identification No.)

One Gateway Center, Suite 504, Newton, Massachusetts 02458

(Address of principal executive offices)

(617) 244-1616

(Issuer's telephone number, including area code)

(Former name, former address, if changed since last report)

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

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

Number of shares outstanding of the issuer's common stock as of the latest practicable date: 39,360,272 shares of common stock, \$.00001 par value per share, as of May 1, 2008.

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

(Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

NOVELOS THERAPEUTICS, INC.

FORM 10-Q INDEX

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

NOVELOS THERAPEUTICS, INC.
BALANCE SHEETS

| | March 31, 2008 (unaudited) | December 31, 2007 (audited) |
|--|----------------------------------|-----------------------------------|
| ASSETS | | |
| CURRENT ASSETS: | | |
| Cash and equivalents | \$ 6,501,049 | \$ 9,741,518 |
| Restricted cash | — | 1,184,702 |
| Prepaid expenses and other current assets | 99,748 | 133,281 |
| Deferred financing costs | 57,213 | — |
| Total current assets | 6,658,010 | 11,059,501 |
| FIXED ASSETS, NET | 41,589 | 32,809 |
| DEPOSITS | 15,350 | 15,350 |
| TOTAL ASSETS | <u>\$ 6,714,949</u> | <u>\$ 11,107,660</u> |
| LIABILITIES AND STOCKHOLDERS' DEFICIENCY | | |
| CURRENT LIABILITIES: | | |
| Accounts payable and accrued liabilities | \$ 8,545,680 | \$ 6,372,478 |
| Accrued compensation | 304,240 | 349,412 |
| Accrued dividends | 740,280 | 337,500 |
| Deferred revenue – current | 33,333 | — |
| Total current liabilities | 9,623,533 | 7,059,390 |
| DEFERRED REVENUE – NONCURRENT | 458,334 | — |
| COMMITMENTS AND CONTINGENCIES | | |
| REDEEMABLE PREFERRED STOCK: | | |
| Series B convertible preferred stock, \$0.00001 par value; 400 shares designated; 300 shares issued and outstanding at March 31, 2008 and December 31, 2007 (liquidation preference \$15,675,000 at March 31, 2008) (Note 2) | 9,918,666 | 9,918,666 |
| STOCKHOLDERS' DEFICIENCY: | | |
| Preferred stock, \$0.00001 par value; 7,000 shares authorized: Series C 8% cumulative convertible preferred stock; 272 shares issued and outstanding at March 31, 2008 and December 31, 2007 (liquidation preference \$3,329,280 at March 31, 2008) (Note 2) | — | — |
| Common stock, \$0.00001 par value; 150,000,000 shares authorized; 39,360,272 shares issued and outstanding at March 31, 2008; 39,260,272 shares issued and outstanding at December 31, 2007 | 393 | 392 |
| Additional paid-in capital | 37,056,867 | 37,370,959 |
| Accumulated deficit | (50,342,844) | (43,241,747) |
| Total stockholders' deficiency | (13,285,584) | (5,870,396) |
| TOTAL LIABILITIES, REDEEMABLE PREFERRED STOCK AND STOCKHOLDERS' DEFICIENCY | <u>\$ 6,714,949</u> | <u>\$ 11,107,660</u> |

See notes to financial statements.

NOVELOS THERAPEUTICS, INC.
STATEMENTS OF OPERATIONS
(Unaudited)

| | Three Months Ended March 31, | |
|--|-------------------------------------|-----------------------|
| | 2008 | 2007 |
| REVENUE | \$ 8,333 | \$ — |
| COSTS AND EXPENSES: | | |
| Research and development | 6,911,925 | 1,909,407 |
| General and administrative | 263,075 | 607,722 |
| Total costs and expenses | <u>7,175,000</u> | <u>2,517,129</u> |
| LOSS FROM OPERATIONS | <u>(7,166,667)</u> | <u>(2,517,129)</u> |
| OTHER INCOME: | | |
| Interest income | 63,321 | 133,959 |
| Miscellaneous | 2,249 | 1,500 |
| Total other income | <u>65,570</u> | <u>135,459</u> |
| NET LOSS | (7,101,097) | (2,381,670) |
| PREFERRED STOCK DIVIDEND | <u>(402,780)</u> | <u>(65,280)</u> |
| NET LOSS ATTRIBUTABLE TO COMMON STOCKHOLDERS | <u>\$ (7,503,877)</u> | <u>\$ (2,446,950)</u> |
| BASIC AND DILUTED NET LOSS ATTRIBUTABLE TO COMMON STOCKHOLDERS PER COMMON SHARE | <u>\$ (0.19)</u> | <u>\$ (0.06)</u> |
| SHARES USED IN COMPUTING BASIC AND DILUTED NET LOSS ATTRIBUTABLE TO COMMON STOCKHOLDERS PER COMMON SHARE | <u>39,342,494</u> | <u>39,235,272</u> |

See notes to financial statements.

NOVELOS THERAPEUTICS, INC.
STATEMENTS OF CASH FLOWS
(Unaudited)

| | Three Months Ended March 31, | |
|---|-------------------------------------|---------------------|
| | 2008 | 2007 |
| CASH FLOWS FROM OPERATING ACTIVITIES: | | |
| Net loss | \$ (7,101,097) | \$ (2,381,670) |
| Adjustments to reconcile net loss to cash used in operating activities: | | |
| Depreciation and amortization | 3,491 | 3,878 |
| Stock-based compensation | 87,689 | 162,546 |
| Change in: | | |
| Prepaid expenses and other current assets | 33,533 | 101,740 |
| Accounts payable and accrued liabilities | 2,173,202 | 157,100 |
| Accrued compensation | (45,172) | (163,360) |
| Deferred revenue | 491,667 | — |
| Cash used in operating activities | (4,356,687) | (2,119,766) |
| CASH FLOWS FROM INVESTING ACTIVITIES: | | |
| Purchases of fixed assets | (12,271) | (3,727) |
| Change in restricted cash | 1,184,702 | 47,540 |
| Deferred financing costs | (57,213) | (25,000) |
| Cash provided by investing activities | 1,115,218 | 18,813 |
| CASH FLOWS FROM FINANCING ACTIVITIES: | | |
| Dividends paid to preferred stockholders | — | (65,280) |
| Proceeds from exercise of stock option | 1,000 | — |
| Cash provided by (used in) financing activities | 1,000 | (65,280) |
| DECREASE IN CASH AND EQUIVALENTS | (3,240,469) | (2,166,233) |
| CASH AND EQUIVALENTS AT BEGINNING OF YEAR | 9,741,518 | 9,938,428 |
| CASH AND EQUIVALENTS AT END OF PERIOD | \$ 6,501,049 | \$ 7,772,195 |
| SUPPLEMENTAL DISCLOSURES OF NON-CASH FINANCING ACTIVITIES | | |
| Dividends accrued but not paid to preferred stockholders | \$ 402,780 | \$ — |

See notes to financial statements.

Novelos Therapeutics, Inc.
Notes to Financial Statements

1. NATURE OF BUSINESS, BASIS OF PRESENTATION

Novelos Therapeutics, Inc. (“Novelos” or the “Company”) is a drug development company focused on the development of therapeutics for the treatment of various cancers and infectious diseases. Novelos owns exclusive worldwide intellectual property rights (excluding Russia and other states of the former Soviet Union) related to certain clinical compounds and other pre-clinical compounds based on oxidized glutathione.

The Company is subject to a number of risks similar to those of other companies in an early stage of development. Principal among these risks are dependence on key individuals, competition from substitute products and larger companies, the successful development and marketing of its products in a highly regulated environment and the need to obtain additional financing necessary to fund future operations.

The Company is devoting substantially all of its efforts toward the research and development of its products and has incurred operating losses since inception. The process of developing products will require significant research and development, non-clinical testing, clinical trials and regulatory approval. The Company expects that these activities, together with general and administrative costs, will result in continuing operating losses for the foreseeable future. The Company’s ability to execute its operating plan is dependent on its ability to obtain capital to fund these activities through the sale of equity and debt securities and through collaborative arrangements with partners. If the Company is unable to obtain capital through these sources, it may have to seek other sources of capital or reevaluate its operating plans.

The accompanying unaudited financial statements of the Company have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”) for interim financial information and with the instructions to Form 10-Q. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments (consisting of normal recurring accruals) considered necessary for the fair presentation of these financial statements have been included. The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Interim results are not necessarily indicative of results to be expected for other quarterly periods or for the entire year ending December 31, 2008. These unaudited financial statements should be read in conjunction with the audited financial statements and related notes thereto included in the Company’s latest annual report for the year ended December 31, 2007 on Form 10-KSB, which was filed with the Securities and Exchange Commission (“SEC”) on March 24, 2008.

Comprehensive Income (Loss) - The Company had no components of comprehensive income (loss) other than the net loss in all periods presented.

2. STOCKHOLDERS’ EQUITY (DEFICIENCY)

2005 PIPE- From May 27, 2005 through August 9, 2005, the Company completed a private offering of securities structured as a “PIPE” (Private Investment in Public Equity), exempt from registration under the Securities Act of 1933, in which it sold to accredited investors 4,000,000 shares of common stock and issued 2,000,000 common stock warrants (initially exercisable at \$2.25 per share) for net cash proceeds of approximately \$3,715,000 (net of cash issuance costs of approximately \$735,000) and conversion of debt and accrued interest of \$550,000. In connection with the private placement, the Company also issued 125,000 shares of common stock to placement agents with a value of approximately \$156,000 and issued 340,000 common stock warrants to placement agents and finders at an initial exercise price of \$2.00 per share. Pursuant to anti-dilution provisions, the number of warrants issued to investors, placement agents and finders as well as the exercise price of the warrants have changed. As of March 31, 2008 the warrants are exercisable into 5,180,000 shares of common stock at an exercise price of \$1.00 per share. See Note 9 for a description of further adjustments resulting from a financing which was completed in April 2008.

Series A Preferred - On September 30, 2005 and October 3, 2005, the Company sold, in a private placement, a total of 3,200 shares of its Series A 8% Cumulative Convertible Preferred Stock (“Series A Preferred Stock”) and 969,696 common stock warrants for net proceeds of \$2,864,000, net of issuance costs of \$336,000. The preferred shares were originally convertible at a price of \$1.65 per common share into 1,939,393 shares of common stock and the warrants were exercisable at \$2.00 per share. The Series A Preferred Stock and warrants had anti-dilution provisions that provided for adjustments to the conversion or exercise price, as applicable, upon the occurrence of certain events. Pursuant to these anti-dilution provisions, both the conversion price of the preferred stock and the exercise price of the warrants were subsequently adjusted to \$1.35 per share on March 7, 2006 in connection with a subsequent offering of common stock described below (2006 PIPE) and the preferred stock then outstanding became convertible into 2,417,774 shares of common stock. See “Series C Preferred” below for a description of the exchange of Series A Preferred Stock. In connection with the sale of Series B Preferred Stock, the exercise price of the warrants was reduced to \$1.00. See Note 9 for a description of a further price adjustment to the warrants resulting from a financing which was completed in April 2008.

2006 PIPE - On March 7, 2006, the Company completed a private offering of securities structured as a PIPE, exempt from registration under the Securities Act of 1933, in which it sold to accredited investors 11,154,073 shares of common stock at \$1.35 per share and warrants to purchase 8,365,542 shares of its common stock exercisable at \$2.50 per share for net cash proceeds of approximately \$13,847,000 (net of issuance costs of approximately \$1,211,000, including placement agent fees of approximately \$1,054,000). In connection with the private placement, the Company issued 669,244 common stock warrants (exercisable at \$2.50 per share) to the placement agents. The fair value of the warrants issued to investors and placement agents was included as a component of permanent equity upon issuance. Pursuant to anti-dilution provisions, the number of warrants issued to investors and placement agents and finders was subsequently increased to 10,270,018 and the exercise price of the warrants was reduced to \$2.20 per share as a result of the sale of Series B preferred stock described below. See Note 9 for a description of further adjustments resulting from a financing which was completed in April 2008.

Series B Preferred - On May 2, 2007, pursuant to a securities purchase agreement with accredited investors dated April 12, 2007 (the "Purchase Agreement"), as amended May 2, 2007, the Company sold 300 shares of a newly created series of preferred stock, designated "Series B Convertible Preferred Stock", with a stated value of \$50,000 per share (the "Series B Preferred Stock") and issued warrants to purchase 7,500,000 shares of common stock for an aggregate purchase price of \$15,000,000.

The shares of Series B Preferred Stock issued to investors are convertible into shares of common stock at \$1.00 per share at any time after issuance at the option of the holder. If there is an effective registration statement covering the shares of common stock underlying the Series B Preferred Stock and the volume-weighted average price ("VWAP"), as defined in the Series B Certificate of Designations, of the Company's common stock exceeds \$2.00 for 20 consecutive trading days, then the outstanding Series B Preferred Stock will automatically convert into common stock at the conversion price then in effect. The conversion price is subject to adjustment only for stock dividends, stock splits or similar capital reorganizations. The Series B Preferred Stock has an annual dividend rate of 9%, payable semi-annually on September 30 and March 31. Such dividends may be paid in cash or in registered shares of the Company's common stock at the Company's option. See Note 9 regarding an exchange of all 300 shares of Series B Preferred Stock for 300 shares of Series D Preferred Stock on April 11, 2008.

Common Stock Purchase Warrants

The common stock purchase warrants issued to investors are exercisable for an aggregate of 7,500,000 shares of the Company's common stock at an exercise price of \$1.25 per share and expire in May 2012. If after the first anniversary of the date of issuance of the warrant, there is no effective registration statement registering, or no current prospectus available for, the resale of the shares issuable upon the exercise of the warrants, the holder may conduct a cashless exercise whereby the holder may elect to pay the exercise price by having the Company withhold, upon exercise, shares having a fair market value equal to the applicable aggregate exercise price. The warrant exercise price and/or number of warrants is subject to adjustment only for stock dividends, stock splits or similar capital reorganizations so that the rights of the warrant holders after such event will be equivalent to the rights of warrant holders prior to such event. If there is an effective registration statement covering the shares underlying the warrants and the VWAP, as defined in the warrant, of the Company's common stock exceeds \$2.25 for 20 consecutive trading days, then on the 31st day following the end of such period any remaining warrants for which a notice of exercise was not delivered shall no longer be exercisable and shall be converted into a right to receive \$.01 per share. Upon the closing of the preferred stock and warrant financing the Company issued placement agents warrants to purchase a total of 900,000 shares of common stock with the same terms as the warrants issued to the investors. See Note 9 for a description of an amendment to the warrants that was executed in connection with a financing that was completed in April 2008.

Registration Rights Agreement

The Company and the investors entered into a registration rights agreement that required the Company to file with the SEC no later than June 1, 2007, a registration statement covering the resale of a number of shares of common stock equal to 100% of the shares issuable upon conversion of the preferred stock and exercise of the warrants as of the date of filing of the registration statement. The registration rights agreement also required the registration statement to be declared effective by August 30, 2007 and requires the Company to use its best efforts to keep the registration statement continuously effective under the Securities Act until the earlier of the date when all securities covered by the registration statement have been sold or the second anniversary of the closing. In the event the Company does not fulfill the requirements of the registration rights agreement, the Company is required to pay to the investors liquidated damages equal to 1.5% per month of the aggregate purchase price of the preferred stock and warrants until the requirements have been met. See Note 9 for a description of an amendment to the registration rights in connection with a financing that was completed in April 2008.

Accounting Treatment

The terms of the Series B Preferred Stock contain provisions that allow the holders to elect to receive a liquidation payment in circumstances that are beyond the Company's control. Therefore the shares have been recorded as redeemable preferred stock outside of permanent equity in the balance sheet. The shares were initially recorded at their estimated as-converted fair value of \$19,050,000, net of cash issuance costs of \$1,306,949. That value was further reduced by the intrinsic value of the beneficial conversion feature of \$7,824,385. The Company has concluded that since it is not probable that an event will occur that would allow the holders to elect to receive a liquidation payment, the carrying value will not be adjusted until the time that such event becomes probable. The liquidation preference (redemption value) is \$15,675,000 at March 31, 2008.

Series C Preferred - As a condition to closing of the sale of Series B Preferred Stock described above, the Company entered into an agreement to exchange and consent with the holders of the Series A Preferred Stock. Pursuant to that agreement, the holders of the Series A Preferred Stock exchanged their 3,264 shares of Series A Preferred Stock for 272 shares of a new Series C convertible preferred stock ("Series C Preferred Stock"), which are subordinated to the Series B Preferred Stock as set forth in the Series C Certificate of Designations. The Series C Preferred Stock is convertible at \$1.00 per share into 3,264,000 shares of common stock. As part of the exchange, the Company issued to the holders of the Series A Preferred Stock warrants to purchase 1,333,333 shares of common stock expiring on May 2, 2012 at a price of \$1.25 per share; paid them a cash allowance to defray expenses totaling \$40,000; and paid them an amount equal to unpaid dividends accumulated through the date of the exchange.

The Series C Preferred Stock has an annual dividend rate of 8% until October 1, 2008 and thereafter has an annual dividend rate of 20%. The dividend rate also increases to 20% upon certain events of default as defined in the Series C Certificate of Designations. The dividends are payable quarterly. Such dividends shall be paid only after all outstanding dividends on the Series B Preferred Stock (with respect to the current fiscal year and all prior fiscal years) shall have been paid to the holders of the Series B Preferred Stock. The conversion price is subject to adjustment for stock dividends, stock splits or similar capital reorganizations.

See Note 9 for a description of an adjustment to the conversion price of Series C Preferred Stock as a result of a financing that was completed in April 2008.

Common Stock Warrants — The following table summarizes information with regard to outstanding warrants issued in connection with equity and debt financings as of March 31, 2008. The sale of Series D Convertible Preferred Stock on April 11, 2008, as described in Note 9, resulted in adjustments to certain warrant exercise prices and amounts. See Note 9 for a summary of those adjustments.

| Offering | Outstanding (as adjusted) | Exercise Price (as adjusted) | Expiration Date |
|--|--------------------------------------|---|------------------------|
| 2005 Bridge Loans | 720,000 | \$ 0.625 | April 1, 2010 |
| 2005 PIPE: | | | |
| Investors | 4,500,000 | \$ 1.00 | August 9, 2008 |
| Placement agents and finders | 680,000 | \$ 1.00 | August 9, 2010 |
| Series A Preferred (1): | | | |
| Investors – September 30, 2005 closing | 909,090 | \$ 1.00 | September 30, 2010 |
| Investors – October 3, 2005 closing | 60,606 | \$ 1.00 | October 3, 2010 |
| 2006 PIPE: | | | |
| Investors | 9,509,275 | \$ 2.20 | March 7, 2011 |
| Placement agents | 760,743 | \$ 2.20 | March 7, 2011 |
| Series B Preferred: | | | |
| Investors | 7,500,000 | \$ 1.25 | May 2, 2012 |
| Placement agents | 900,000 | \$ 1.25 | May 2, 2012 |

Series C Exchange 1,333,333 \$ 1.25 May 2, 2012

Total 26,873,047

(1) Concurrently with the closing of the Series B Financing, all shares of Series A Preferred Stock were exchanged for shares of Series C Preferred Stock.

On April 1, 2005, in connection with the issuance of \$450,000 bridge notes payable, the Company issued warrants to purchase 720,000 shares of Novelos common stock at \$0.625 per share that are exercisable through April 1, 2010.

No warrants have been exercised as of March 31, 2008.

3. COLLABORATION AGREEMENT

In December 2007 the Company entered into a Collaboration Agreement with Lee's Pharmaceutical (HK) Ltd ("Lee's Pharma"). Pursuant to the agreement, Lee's Pharma obtained an exclusive license to develop, manufacture and commercialize NOV-002 and NOV-205 in Hong Kong, Macau, China and Taiwan (the "territory"). Under the terms of the agreement the Company received an upfront license fee of \$500,000 in March 2008 and is entitled to receive up to \$1,700,000 in future milestone payments upon the completion of development and marketing milestones by Lee's Pharma. The \$500,000 milestone payment received is being amortized over the estimated term of the agreement, 15 years. Accordingly, \$8,333 of license revenue was recognized in the three months ended March 31, 2008.

The Company will receive royalty payments of 20-25% of net sales of NOV-002 in the territory and will receive royalty payments of 12%-15% of net sales of NOV-205 in the territory. Lee's Pharma will also reimburse the Company for the manufacturing cost of pharmaceutical products provided to Lee's Pharma in connection with the agreement. Lee's Pharma has committed to spending certain minimum amounts on development in the first 4 years of the agreement. The agreement expires upon the expiration of the last patent covering any of the licensed products, or twelve years from the date of the first commercial sale in China, whichever is longer.

4. STOCK-BASED COMPENSATION

The following table summarizes amounts charged to expense for stock-based compensation related to employee and director stock option grants and stock-based compensation recorded in connection with stock options and restricted stock awards granted to non-employee consultants:

| | Three Months Ended March 31, | |
|---|---------------------------------|-------------------|
| | 2008 | 2007 |
| Employee and director stock option grants: | | |
| Research and development | \$ 28,330 | \$ 63,066 |
| General and administrative | 58,887 | 41,642 |
| | <u>87,217</u> | <u>104,708</u> |
| Non-employee consultants stock option grants and restricted stock awards: | | |
| Research and development | 70 | 17,858 |
| General and administrative | 402 | 39,980 |
| | <u>472</u> | <u>57,838</u> |
| Total stock-based compensation | <u>\$ 87,689</u> | <u>\$ 162,546</u> |

Determining Fair Value

The following table summarizes weighted-average values and assumptions used for options granted to employees, directors and consultants in the periods indicated:

| | Three Months Ended | |
|--|--------------------|---------|
| | March 31, | |
| | 2008 | 2007 |
| Volatility | 80% | 80% |
| Weighted-average volatility | 80% | 80% |
| Risk-free interest rate | 3.28% | 4.66% |
| Expected life (years) | 5 | 5 |
| Dividend | 0 | 0 |
| Weighted-average exercise price | \$ 0.60 | \$ 0.89 |
| Weighted-average grant-date fair value | \$ 0.40 | \$ 0.60 |

A summary of stock option activity is as follows:

| | Options Outstanding | Weighted Average Exercise Price | Weighted Average Remaining Contracted Term in Years | Aggregate Intrinsic Value |
|--------------------------------|---------------------|---------------------------------|---|---------------------------|
| Outstanding at January 1, 2008 | 4,847,651 | \$ 0.67 | | |
| Options granted | 335,000 | \$ 0.60 | | |
| Options exercised | (100,000) | \$ 0.01 | | |
| Outstanding at March 31, 2008 | 5,082,651 | \$ 0.68 | 8.0 | \$ 933,496 |
| Exercisable at March 31, 2008 | 3,135,978 | \$ 0.71 | 7.1 | \$ 906,526 |

The aggregate intrinsic value of options outstanding is calculated based on the positive difference between the closing market price of the Company's common stock at the end of the respective period and the exercise price of the underlying options.

As of March 31, 2008, there was approximately \$653,000 of total unrecognized compensation cost related to unvested stock-based compensation arrangements. Of this total amount, 47%, 40% and 13% are expected to be recognized during 2008, 2009 and 2010, respectively. The Company expects 1,946,673 in unvested options to vest in the future. The weighted-average grant-date fair value of vested and unvested options outstanding at March 31, 2008 was \$0.37 and \$0.58, respectively.

5. NET LOSS PER SHARE

Basic net loss per share is computed by dividing net loss attributable to common stockholders by the weighted average number of shares of common stock outstanding during the period. Diluted net loss per share is computed by dividing net loss attributable to common stockholders by the weighted average number of shares of common stock and the dilutive potential common stock equivalents then outstanding. Potential common stock equivalents consist of stock options, warrants and convertible preferred stock. Since the Company has a net loss for all periods presented, the inclusion of common stock equivalents in the computation would be antidilutive. Accordingly, basic and diluted net loss per share are the same.

The following potentially dilutive securities have been excluded from the computation of diluted net loss per share since their inclusion would be antidilutive:

| | Three Months Ended | |
|-------------------------------|--------------------|------------|
| | March 31, | |
| | 2008 | 2007 |
| Stock options | 5,082,651 | 3,612,651 |
| Warrants | 26,873,047 | 14,561,449 |
| Conversion of preferred stock | 18,264,000 | 2,417,774 |

6. INCOME TAXES

The Company accounts for income taxes in accordance with SFAS No. 109, *Accounting for Income Taxes* (SFAS 109). Under SFAS 109, deferred tax assets or liabilities are computed based on the difference between the financial-statement and income-tax basis of assets and liabilities, and net operating loss carryforwards, using the enacted tax rates. Deferred income tax expense or benefit is based on changes in the asset or liability from period to period. The Company did not record a provision for federal, state or foreign income taxes for the three months ended March 31, 2008 and 2007 because the Company has experienced losses since inception. The Company has not recorded a benefit for deferred tax assets as their realizability is uncertain.

7. NEW ACCOUNTING PRONOUNCEMENTS

In June 2007, the Emerging Issues Task Force reached a consensus on Issue No. 07-3 *Accounting for Nonrefundable Advance Payments for Goods or Services Received for Use in Future Research and Development Activities* (EITF 07-3). EITF 07-3 requires that nonrefundable advance payments for goods or services used or rendered for future research and development activities be deferred and capitalized and subsequently recognized as an expense as the goods are delivered or the related services are performed. EITF 07-3 is effective for fiscal years beginning after December 15, 2007 and interim periods within those fiscal years with no earlier application permitted. The adoption of EITF 07-3 had no effect on the Company's reported financial position and results of operations in the quarter ended March 31, 2008.

In February 2007, the Financial Accounting Standards Board (FASB) issued SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities – Including an Amendment to FASB Statement No. 115* (SFAS 159). SFAS 159 permits entities to choose to measure many financial instruments and certain other items at fair value. SFAS 159 is effective for financial statements issued for fiscal years beginning after November 15, 2007. Earlier adoption is permitted as of the beginning of a fiscal year that begins on or before November 15, 2007, provided that the entity also elects to apply the provisions of SFAS 157. The adoption of SFAS 159 had no effect on the Company's reported financial position and results of operations in the quarter ended March 31, 2008.

In September 2006, the FASB issued SFAS No. 157, *Fair Value Measurements* (SFAS 157), to define fair value, establish a framework for measuring fair value in generally accepted accounting principles and expand disclosures about fair-value measurements. SFAS 157 is effective for financial statements issued for fiscal years beginning after November 15, 2007 and interim periods within those fiscal years, with earlier application allowed. The adoption of SFAS 157 had no effect on the Company's reported financial position and results of operations in the quarter ended March 31, 2008.

8. COMMITMENTS AND RELATED PARTY TRANSACTIONS

The Company is obligated to ZAO BAM under a royalty and technology transfer agreement. Mark Balazovsky, a director of the Company until November 2006, is the majority shareholder of ZAO BAM. Pursuant to the royalty and technology transfer agreement between the Company and ZAO BAM, the Company is required to make royalty payments of 1.2% of net sales of oxidized glutathione-based products. The Company is also required to pay ZAO BAM \$2 million for each new oxidized glutathione-based drug within eighteen months following FDA approval of such drug.

If a royalty is not being paid to ZAO BAM on net sales of oxidized glutathione products, then the Company is required to pay ZAO BAM 3% of all license revenues. If license revenues exceed the Company's cumulative expenditures including, but not limited to, preclinical and clinical studies, testing, FDA and other regulatory agency submission and approval costs, general and administrative costs, and patent expenses, then the Company would be required to pay ZAO BAM an additional 9% of the amount by which license revenues exceed the Company's cumulative expenditures. During the quarter ended March 31, 2008, the Company paid ZAO BAM \$15,000 in connection with license payments received under the collaboration agreement described in Note 3.

As a result of the assignment to Novelos of the exclusive worldwide intellectual property and marketing rights of oxidized glutathione (excluding Russia and the other states of the former Soviet Union), Novelos is obligated to the Oxford Group, Ltd. for future royalties. One of the Company's directors is president of Oxford Group, Ltd. Pursuant to the agreement, as revised May 26, 2005, Novelos is required to pay Oxford Group, Ltd. a royalty in the amount of 0.8% of the Company's net sales of oxidized glutathione-based products.

9. SUBSEQUENT EVENTS

Closing of Financing

Securities Purchase Agreement

On April 11, 2008, pursuant to a securities purchase agreement with accredited investors dated March 26, 2008, as amended on April 9, 2008 (the "Purchase Agreement"), the Company sold 113.5 shares of a newly created series of its preferred stock, designated "Series D Convertible Preferred Stock", par value \$0.00001 per share (the "Series D Preferred Stock") and issued warrants to purchase 4,365,381 shares of its common stock for an aggregate purchase price of \$5,675,000 (the "Series D Financing"). Pursuant to the Purchase Agreement, from and after the closing, Xmark Opportunity Fund, L.P., Xmark Opportunity Fund, Ltd. and Xmark JV Investment Partners, LLC (collectively, the "Xmark Entities"), will have the right to designate one member to the Company's Board of Directors. This right shall last until such time as the Xmark Entities no longer hold at least one-third of the Series D Preferred Stock issued to them at closing. In addition, the Xmark Entities, Caduceus Master Fund Limited, Caduceus Capital II, L.P., Summer Street Life Sciences Hedge Fund Investors, LLC, UBS Eucalyptus Fund, LLC and PW Eucalyptus Fund, Ltd. (collectively, the "Lead Investors") will have the right to designate one observer to attend all meetings of the Company's Board of Directors, committees thereof and access to all information made available to members of the Board. This right shall last until such time as the Lead Investors no longer hold at least one-third of the Series D Preferred Stock issued to them at closing.

In connection with the closing of the Series D Financing, the holders of the Company's Series B Preferred Stock, exchanged all 300 of their shares of Series B Preferred Stock for 300 shares of Series D Preferred Stock. Following the exchange, no shares of Series B Preferred Stock are outstanding. The rights and preferences of the Series D Preferred Stock are substantially the same as the Series B Preferred Stock. However, the conversion price of the Series D Preferred Stock is \$0.65. In addition, the holders of Series B Preferred Stock waived liquidated damages that had accrued from September 7, 2007 through the closing date as a result of the Company's failure to register for resale 100% of the shares of common stock underlying the Series B Preferred Stock and warrants. The Purchase Agreement provides that the dividends that accrued on the shares of Series B Preferred Stock from April 1, 2008 through the date of exchange shall be paid, out of legally available funds, on June 30, 2008.

Series D Preferred Stock

The shares of Series D Preferred Stock are convertible into shares of common stock any time after issuance at the option of the holder at \$0.65 per share of common stock. If there is an effective registration statement covering the shares of common stock underlying the Series D Preferred Stock and the VWAP, as defined in the Series D Certificate of Designations, of the Company's common stock exceeds \$2.00 for 20 consecutive trading days, then the outstanding Series D Preferred Stock will automatically convert into common stock at the conversion price then in effect. The conversion price will be subject to adjustment for stock dividends, stock splits or similar capital reorganizations.

The holders of Series D Preferred Stock are entitled to vote on all matters on which the holders of common stock are entitled to vote. The number of votes to which each holder of Series D Preferred Stock is entitled is equal to the number of shares of common stock that would be issued to such holder if the Series D Preferred Stock had been converted at the record date for the meeting of stockholders.

The Series D Preferred Stock has an annual dividend rate of 9%, payable semi-annually on June 30 and December 31. Such dividends may be paid in cash or in registered shares of the Company's common stock at the Company's option, subject to certain conditions.

The Series D Preferred Stock ranks senior to all other outstanding series of preferred stock and common stock as to the payment of dividends and the distribution of assets upon voluntary or involuntary liquidation, dissolution or winding up of the Company's affairs. The Series D preferred stockholders will be entitled to receive first, \$50,000 per share and all accrued and unpaid dividends. They are then entitled to participate with the holders of the common stock in the distribution of remaining assets on a pro rata basis. If, upon any winding up of the Company's affairs, assets available to pay the holders of Series D Preferred Stock are not sufficient to permit the payment in full, then all assets will be distributed to the holders of Series D Preferred Stock on a pro rata basis. If the Company sells, leases or otherwise transfers substantially all of its assets, consummates a business combination in which it is not the surviving corporation or, if it is the surviving corporation, if the holders of a majority of the common stock immediately before the transaction do not hold a majority of common stock immediately after the transaction, in one or a series of events, change the majority of the members of the board of directors, or if any person or entity (other than the holders of Series D Preferred Stock) acquires more than 50% of the Company's outstanding stock, then the holders of Series D Preferred Stock are entitled to receive the same liquidation preference as described above, except that after receiving \$50,000 per preferred share and any accrued but unpaid dividends, they are not entitled to participate with the common stock in a distribution of the remaining assets.

For as long as any shares of Series D Preferred Stock remain outstanding, the Company is prohibited from (i) paying dividends to its common stockholders, (ii) amending its certificate of incorporation, (iii) issuing any equity security or any security convertible into or exercisable for any equity security at a price of \$0.65 or less or with rights senior to the Series D Preferred Stock (except for certain exempted issuances), (iv) increasing the number of shares of Series D Preferred Stock or issuing any additional shares of Series D Preferred Stock, (v) selling or otherwise disposing of all or substantially all of its assets or intellectual property or entering into a merger or consolidation with another company unless the Company is the surviving corporation, the Series D Preferred Stock remains outstanding and there are no changes to the rights and preferences of the Series D Preferred Stock, (vi) redeeming or repurchasing any capital stock other than Series D Preferred Stock, (vii) incurring any new debt for borrowed money in excess of \$500,000 and (viii) changing the number of directors. The Company is required to reserve, out of authorized shares of common stock, 100% of the number of shares of common stock into which Series D Preferred Stock is convertible.

Common Stock Purchase Warrants

The common stock purchase warrants issued to the investors are exercisable for an aggregate of 4,365,381 shares of the Company's common stock at an exercise price of \$0.65 and expire in April 2013. If after the six-month anniversary of the date of issuance of the warrants there is no effective registration statement registering, or no current prospectus available for, the resale of the shares issuable upon the exercise of the warrants, the holder may conduct a cashless exercise whereby the holder may elect to pay the exercise price by having the Company withhold, upon exercise, shares having a fair market value equal to the applicable aggregate exercise price. In the event of a cashless exercise, the Company would receive no proceeds from the sale of common stock in connection with such exercise.

The warrant exercise price and/or number of warrants is subject to adjustment only for stock dividends, stock splits or similar capital reorganizations so that the rights of the warrant holders after such event will be equivalent to the rights of warrant holders prior to such event.

If there is an effective registration statement covering the shares underlying the warrants and the VWAP, as defined in the warrant, of the Company's common stock exceeds \$2.50 for 20 consecutive trading days, then on the 31st day following the end of such period any remaining warrants for which a notice of exercise was not delivered shall no longer be exercisable and shall be converted into a right to receive \$.01 per share.

Registration Rights Agreement

The Company entered into a registration rights agreement with the investors that requires the Company to file with the Securities and Exchange Commission no later than 5 business days following the six-month anniversary of the closing of the Series D Financing, a registration statement covering the resale of (i) a number of shares of common stock equal to 100% of the shares issuable upon conversion of the Series D Preferred Stock (excluding 12,000,000 shares of common stock issuable upon conversion of the Series D Preferred Stock that were included on a prior registration statement), (ii) a number of shares of common stock equal to 100% of the shares issuable upon exercise of the warrants issued in the Series D Financing and (iii) 7,500,000 shares of common stock issuable upon exercise of warrants dated May 2, 2007 held by the investors. The Company is required to use its best efforts to have the registration statement declared effective and keep the registration statement continuously effective under the Securities Act until the earlier of the date when all the registrable securities covered by the registration statement have been sold or the second anniversary of the closing. In the event the Company fails to file the registration statement within the timeframe specified by the Registration Rights Agreement, the investors are entitled to receive liquidated damages equal to 1.5% per month (pro-rated on a daily basis for any period of less than a full month) of the aggregate purchase price of the Series D Preferred Stock and warrants until the Company files the delinquent registration statement. The Company is allowed to suspend the use of the registration statement for not more than 15 consecutive days or for a total of not more than 30 days in any 12-month period.

Placement Agent Fee

Following the closing of the Series D Financing, the Company paid Rodman & Renshaw LLC a cash fee of \$100,000.

Amendments to Prior Warrants and Registration Rights Agreement

At the closing, the Company entered into an amendment to the registration rights agreement dated May 2, 2007 with the holders of its Series B Preferred Stock to revise the definition of registrable securities under the agreement to only include the 12,000,000 shares of common stock that were included on a prior registration statement and to extend the registration obligations under the agreement by one year. On April 28, 2008, the amended registration statement covering the 12,000,000 shares of common stock required to be registered was declared effective. Accordingly, the Company has not accrued any liquidated damages at March 31, 2008 in connection with its registration obligation under the agreement. If the Company is unable to maintain the effectiveness of that registration statement through April 11, 2010, the Company may become liable for liquidated damages in future periods.

In addition, in connection with the closing, the warrants to purchase common stock issued in connection with the sale of Series B Preferred Stock were amended to conform the terms of those warrants to the terms of the warrants issued in the Series D Financing.

Anti-Dilution Adjustments

The sale of the Series D Preferred Stock resulted in a reduction to the conversion price of the Series C Preferred Stock to \$0.65 so that the outstanding shares of Series C Preferred Stock became convertible into 5,021,538 shares of common stock.

In addition, the sale of Series D Preferred Stock resulted in adjustments to the amount and/or exercise price of certain warrants, pursuant to the terms of the agreements or amendments to the agreements in the case of the warrants held by the Series B preferred stockholders. The following table summarizes the anti-dilution adjustments to warrants that were outstanding prior to the financing:

| Offering | Prior to Series D Financing | | Following Series D Financing | |
|--------------------|------------------------------------|-----------------------|-------------------------------------|-----------------------|
| | Number Outstanding | Exercise Price | Number Outstanding | Exercise Price |
| 2005 PIPE | 5,180,000 | \$ 1.00 | 7,969,181 | \$ 0.65 |
| Series A Preferred | 969,696 | \$ 1.00 | 969,696 | \$ 0.65 |
| 2006 PIPE | 10,270,018 | \$ 2.20 | 10,955,467 | \$ 2.08 |
| Series B Preferred | 8,400,000 | \$ 1.25 | 8,400,000 | \$ 0.65 |

Payment of Dividends

Following the closing of the Series D financing, dividends that had accrued through March 31, 2008 on outstanding shares of Series B and Series C Preferred Stock totaling \$740,280 were paid in cash.

Accounting Treatment

The Company is currently evaluating the accounting treatment for the Series D financing. However, it is anticipated that the Series D preferred stock will be classified outside of permanent equity.

Appointment of New Vice President of Regulatory Affairs, Quality and Compliance

On May 13, 2008 the board of directors of the Company appointed Elias B. Nyberg, DVM, BVSc, MACVS, MRCVS, MBA to the position of Vice President of Regulatory Affairs, Quality and Compliance. Dr. Nyberg, 53, commenced employment with the Company on April 1, 2008. Prior to his employment with Novelos, since September 2006, Dr. Nyberg was a regulatory advisor to several companies including Labopharm and Novartis Phramaceuticals, Inc. From February 2004 to September 2006 he was the Vice President Regulatory Affairs for CombinatoRx. From April 2001 to January 2004 he served as the Senior Director International Regulatory Affairs for Biogen. Dr. Nyberg has also held senior regulatory positions with INC Research/PRA International Inc., Astra Arcus AB, Pfizer Pharmaceuticals and Ciba-Geigy. Prior to his tenure in the biotechnology industry, Dr. Nyberg practiced as a veterinarian for 12 years, specializing in exotic animals. On April 1, 2008, Dr. Nyberg received a fully vested option to purchase 100,000 shares of the Company's common stock with an exercise price of \$0.58 per share, which represents the closing price of the Company's common stock on April 1, 2008 as reported on the Over the Counter Bulletin Board.

Dr. Nyberg replaced M. Taylor Burtis who resigned on May 13, 2008. The Company entered into a separation agreement with Ms. Burtis providing, among other things, the vesting of all 166,667 unvested options, the extension of time to exercise all 350,000 unexercised options until December 31, 2009, continuation of her salary through May 31, 2008 and reimbursement for the cost of health insurance for up to six months.

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

Forward-Looking Statements

This quarterly report on Form 10-Q includes forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, which we refer to as the Exchange Act. For this purpose, any statements contained herein regarding our strategy, future operations, financial position, future revenues, projected costs, prospects, plans and objectives of management, other than statements of historical facts, are forward-looking statements. The words "anticipates," "believes," "estimates," "expects," "intends," "may," "plans," "projects," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We cannot guarantee that we actually will achieve the plans, intentions or expectations disclosed in our forward-looking statements. There are a number of important factors that could cause actual results or events to differ materially from those disclosed in the forward-looking statements we make. These important factors include our "critical accounting estimates" and the risk factors set forth below under the caption "Factors That May Affect Future Results." Although we may elect to update forward-looking statements in the future, we specifically disclaim any obligation to do so, even if our estimates change, and readers should not rely on those forward-looking statements as representing our views as of any date subsequent to the date of this quarterly report.

Overview

We are a biopharmaceutical company, established in 1996, commercializing oxidized glutathione-based compounds for the treatment of cancer and hepatitis.

NOV-002, our lead compound currently in Phase 3 development for non-small cell lung cancer (NSCLC), acts as a chemoprotectant and a chemopotentiator. In May 2006, we finalized a Special Protocol Assessment (SPA) with the FDA for a single pivotal Phase 3 trial in advanced NSCLC in combination with first-line chemotherapy, and received Fast Track designation in August 2006. The primary endpoint of this trial is improvement in median overall survival. Patient enrollment commenced in November 2006 and targeted enrollment was reached on March 13, 2008. NOV-002 is also in Phase 2 development for chemotherapy-resistant ovarian cancer and early-stage breast cancer.

NOV-205, our second compound, acts as a hepatoprotective agent with immunomodulating and anti-inflammatory properties. Our Investigational New Drug Application for NOV-205 as monotherapy for chronic hepatitis C has been accepted by the FDA. A U.S. Phase 1b clinical trial in patients who previously failed treatment with pegylated interferon plus ribavirin was completed in December 2007. Based on favorable safety results of that trial, we plan to initiate a longer duration proof-of-concept trial in the fourth quarter of 2008.

Both compounds have completed clinical trials in humans and have been approved for use in Russia, where they were originally developed. We own all intellectual property rights worldwide (excluding Russia and other states of the former Soviet Union) related to compounds based on oxidized glutathione, including NOV-002 and NOV-205. Our patent portfolio includes five U.S. issued patents, two European issued patents and one Japanese issued patent.

Plan of Operation

Our plan of operation for the next twelve months is to continue the clinical development of our two product candidates. We expect our principal expenditures during those 12 months to largely consist of the costs associated with clinical trials. We will continue to maintain a low number of permanent employees and utilize senior advisors, consultants, contract research and manufacturing organizations and third parties to perform certain aspects of product development, including clinical and non-clinical development, manufacturing and, in some cases, regulatory and quality assurance functions. Based on our current and anticipated spending, we anticipate that we will be able to fund these activities with existing working capital into late 2008 (including use of the proceeds from our sale of Series D Preferred Stock). We plan to seek additional capital during 2008. We also plan to evaluate out-license opportunities for NOV-002 in Europe and/or Japan and use resources from these potential arrangements to offset, in part, the expense of our development. If we are unable to obtain funding on a timely basis, we may be required to significantly curtail or terminate one or more of our research or development programs or take other steps that could significantly impact the execution of our strategy.

Capital Structure and Financings

In 2005 following the settlement of certain of our indebtedness, we completed a two-step reverse merger with Common Horizons, Inc. (“Common Horizons”), a Nevada-based developer of web portals, and its wholly-owned subsidiary Nove Acquisition, Inc. After the completion of the reverse merger Novelos became the surviving corporation, the business of Common Horizons, which was insignificant, was abandoned and the business of Novelos was adopted. The transaction was therefore treated as a reverse acquisition recapitalization with Novelos as the acquiring party and Common Horizons as the acquired party for accounting purposes.

During 2005, 2006 and 2007 we completed various private placements of securities. In May through August of 2005 we sold an aggregate of 4,000,000 shares of common stock and warrants to purchase 2,000,000 shares of common stock for net cash proceeds of \$3,715,000 and the conversion of \$550,000 of convertible debt and accrued interest. In September and October 2005, we sold in a private placement 3,200 shares of Series A preferred stock and warrants to purchase 969,696 shares of common stock for aggregate net proceeds of \$2,864,000. On March 7, 2006, we sold 11,154,073 shares of our common stock and warrants to purchase 8,365,542 shares of our common stock for net proceeds of \$13,847,000. On May 2, 2007, we sold 300 shares of our Series B preferred stock and warrants to purchase 7,500,000 shares of our common stock for net proceeds of \$13,693,000. In connection with that financing, the holders of the existing Series A preferred stock exchanged their 3,264 shares of Series A preferred stock for 272 shares of a new Series C convertible preferred stock, which are convertible into 3,264,000 shares of common stock. On April 11, 2008, we sold 113.5 shares of our Series D preferred stock and warrants to purchase 4,365,381 shares of common stock for estimated net proceeds of \$5,475,000 (net of issuance costs). The shares of Series D preferred stock sold in the financing are convertible into 8,730,755 shares of common stock. In connection with that financing, the holders of the existing Series B preferred stock exchanged their 300 shares of Series B preferred stock for 300 shares of Series D preferred stock, which are convertible into 23,076,900 shares of common stock.

Results of Operations

Revenue. Revenue consists of amortization of up-front license fees received in connection with partner agreements.

Research and development expense. Research and development expense consists of costs incurred in identifying, developing and testing product candidates, which primarily consist of salaries and related expenses for personnel, fees paid to professional service providers for independent monitoring and analysis of our clinical trials, costs of contract research and manufacturing and costs to secure intellectual property. We are currently developing two proprietary compounds, NOV-002 and NOV-205. To date, most of our research and development costs have been associated with our NOV-002 compound.

General and administrative expense. General and administrative expense consists primarily of salaries and other related costs for personnel in executive, finance and administrative functions. Other costs include facility costs, insurance, costs for public and investor relations, directors’ fees and professional fees for legal and accounting services.

Three Months Ended March 31, 2008 and 2007

Revenue. During the three months ended March 31, 2008 we recognized \$8,000 in license fees in connection with our collaboration with Lee’s Pharmaceutical (HK) Ltd (“Lee’s Pharma”). Under the terms of the agreement the Company received an upfront license fee of \$500,000 in March 2008 and is entitled to receive up to \$1,700,000 in future milestone payments upon the completion of development and marketing milestones by Lee’s Pharma. The \$500,000 milestone payment received is being amortized over the estimated term of the agreement, 15 years. No such agreement existed during the first quarter of 2007.

Research and Development. Research and development expense for the three months ended March 31, 2008 was \$6,912,000 compared to \$1,909,000 for the three months ended March 31, 2007. The \$5,003,000, or 262%, increase in research and development expense was due to increased funding of our clinical, contract manufacturing and non-clinical activities. The overall increase resulted principally from expanded activities relating to our pivotal Phase 3 clinical trial of NOV-002 for non-small cell lung cancer. The increase includes \$1,710,000 in additional contract research and consulting services, an increase of \$1,227,000 in clinical investigator expenses, an increase of \$288,000 in drug manufacturing and distribution costs (including storing and shipping chemotherapy drug) and an increase of \$107,000 related to salaries and overhead costs such as travel and related expenses. We also purchased \$1,723,000 of chemotherapy drugs during the first quarter of 2008 to be used in the Phase 3 clinical trial, specifically for clinical sites in Eastern and Western Europe. Since we do not anticipate recovering any of the costs of the chemotherapy and we do not have a reliable method for tracking the drugs that have been administered to patients or evaluating any losses associated with spoilage, we recorded the entire amount as an expense in the period purchased. The increases discussed above were offset by a decrease of \$52,000 in stock-based compensation expense during the first quarter of 2008 as compared to the same period in 2007.

General and Administrative. General and administrative expense for the three months ended March 31, 2008 was \$263,000 compared to \$608,000 for the three months ended March 31, 2007. The \$345,000, or 57%, decrease in general and administrative expense was due principally to three factors. First, we reduced our accrual for potential liquidated damages associated with the registration rights agreements by \$404,000. Liquidated damages had accrued resulting from our registration of less than 100% of the securities required by the registration rights agreements with investors in our Series B Preferred Stock financing. Those damages were waived in connection with the sale of Series D Preferred Stock described in Note 9. The registration obligations associated with 2005 and 2006 financings have expired. Stock-based compensation decreased \$22,000 in the quarter ended March 31, 2008 compared to the same period of the prior year. These decreases were partially offset by a \$81,000 increase in salary, directors fees and overhead costs.

Interest Income. Interest income for the three months ended March 31, 2008 was \$63,000 compared to \$134,000 for the same period in 2007. This decrease is a result of a lower cash balance as well as a decline in prevailing interest rates.

Preferred Stock Dividends. During the quarter ended March 31, 2008, \$403,000 in dividends were accrued. These dividends to Series C and D preferred stockholders were paid in April following the closing of the sale of Series D Preferred Stock. In the quarter ended March 31, 2007 we paid cash dividends to Series A preferred stockholders of \$65,000. The increase in 2008 relates to dividends on the Series B Preferred Stock, which was not outstanding during the first quarter of 2007.

Liquidity and Capital Resources

We have financed our operations since inception through the sale of securities and the issuance of debt (which was subsequently paid off or converted into equity). As of March 31, 2008, we had \$6,501,000 in cash and equivalents.

During the quarter ended March 31, 2008, cash of approximately \$4,357,000 was used in operations, primarily due to a net loss of \$7,101,000. The cash impact of the loss was offset by non-cash stock-based compensation expense of \$88,000, depreciation and amortization of \$3,000, a decrease in prepaid expenses of \$34,000, a net increase in accounts payable, accrued liabilities and accrued compensation of \$2,128,000 and an increase in deferred revenue of \$492,000. The significant increase in accounts payable and accrued liabilities is principally a result of greater than expected delays in invoicing from clinical research organizations. During the quarter ended March 31, 2008, cash of approximately \$1,115,000 was provided by investing activities resulting from the release of restrictions on \$1,185,000 of cash that had been previously restricted, offset by payments of \$12,000 to purchase fixed assets and \$57,000 for financing costs.

During the quarter ended March 31, 2008, we received proceeds of \$1,000 from the exercise of stock options.

On April 11, 2008, pursuant to a securities purchase agreement signed March 26, 2008, as amended April 9, 2008, we sold 113.5 shares of a newly created series of our preferred stock, designated "Series D Convertible Preferred Stock", par value \$0.00001 per share (the "Series D Preferred Stock") and issued warrants to purchase 4,365,381 shares of our common stock for an aggregate purchase price of \$5,675,000 (the "Series D Financing").

Based on our current and anticipated spending, we believe that our available cash and equivalents, including the net proceeds from the Series D financing, will fund our operations into late 2008. We will need to raise additional capital in order to complete the pivotal Phase 3 clinical trial for NOV-002 in NSCLC and other research and development activities. We plan to seek additional funding through collaborative arrangements and public or private financings. Our ability to continue to execute our operating plan is dependent on our ability to obtain such funding. Additional funding may not be available to us on acceptable terms or at all. In addition, the terms of any financing may adversely affect the holdings or the rights of our stockholders. For example, if we raise additional funds by issuing equity securities, further dilution to our existing stockholders may result. If we are unable to obtain funding on a timely basis, we may be required to significantly curtail one or more of our research or development programs. We also could be required to seek funds through arrangements with collaborators or others that may require us to relinquish rights to some of our technologies, product candidates, or products which we would otherwise pursue on our own.

Even if we are able to raise additional funds in a timely manner, our future capital requirements may vary from what we expect and will depend on many factors, including the following:

- the resources required to successfully complete our clinical trials;
- the time and costs involved in obtaining regulatory approvals;
- continued progress in our research and development programs, as well as the magnitude of these programs;
- the cost of manufacturing activities;
- the costs involved in preparing, filing, prosecuting, maintaining, and enforcing patent claims;
- the timing, receipt, and amount of milestone and other payments, if any, from collaborators; and
- fluctuations in foreign exchange rates.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and our Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of March 31, 2008. Disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, are controls and procedures that are designed to ensure that information required to be disclosed in our reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms and that such information is accumulated and communicated to our management, including our principal executive and financial officers, to allow timely decisions regarding required disclosures.

Based on the evaluation of our disclosure controls and procedures as of March 31, 2008, our Chief Executive Officer and our Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were operating effectively.

Change in Internal Control over Financial Reporting

The Company's management, in connection with its evaluation of internal controls (with the participation of the Company's principal executive officer and principal financial officer), did not identify any change in internal control over the financial reporting process that occurred during the Company's first fiscal quarter of 2008 that would have materially affected, or would have been reasonably likely to materially affect, the Company's internal control over financial reporting.

Limitations on Effectiveness of Controls

In designing and evaluating our disclosure controls and procedures, our management recognizes that any system of controls, however well designed and operated, can provide only reasonable, and not absolute, assurance that the objectives of the system are met. In addition, the design of any control system is based in part on certain assumptions about the likelihood of future events. Because of these and other inherent limitations of control systems, there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions, regardless of how remote.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

None.

Item 1A. Risk Factors

The report from our independent registered public accounting firm included in our annual report on Form 10-KSB indicates that there is substantial doubt about whether we will be able to continue as a going concern for a period of one year from the date of their report.

The report from our independent registered public accounting firm included with our annual report on Form 10-KSB indicates that factors exist that raise substantial doubt about our ability to continue as a going concern through March 2009. We have estimated that the cash on hand at March 31, 2008 plus the proceeds from the sale of Series D Preferred Stock will fund our obligations into late 2008. Our ability to continue as a going concern is dependent on our ability to obtain capital (through the sale of equity and debt securities and through collaborative arrangements with partners) to fund our development activities. If we are unable to obtain additional capital through these sources, we may have to seek other sources of capital or reevaluate our operating plans, including slowing or stopping the Phase 3 clinical development of our lead drug candidate, NOV-002.

We may have difficulty raising needed capital because of our limited operating history and our business risks.

We currently generate insignificant revenue from our proposed products or otherwise. We do not know when this will change. We have expended and will continue to expend substantial funds in the research, development and clinical and pre-clinical testing of our drug compounds. We will require additional funds to conduct research and development, establish and conduct clinical and pre-clinical trials, establish commercial-scale manufacturing arrangements and provide for the marketing and distribution of our products. Additional funds may not be available on acceptable terms, if at all. If adequate funding is not available to us, we may have to delay, reduce the scope of or eliminate one or more of our research or development programs or product launches or marketing efforts, which may materially harm our business, financial condition and results of operations.

Our long-term capital requirements are expected to depend on many factors, including:

- the number of potential products and technologies in development;
- continued progress and cost of our research and development programs;
- progress with pre-clinical studies and clinical trials;
- the time and costs involved in obtaining regulatory clearance;
- costs involved in preparing, filing, prosecuting, maintaining and enforcing patent claims;
- costs of developing sales, marketing and distribution channels and our ability to sell our drugs;
- costs involved in establishing manufacturing capabilities for clinical trial and commercial quantities of our drugs;
- competing technological and market developments;
- market acceptance of our products;
- costs for recruiting and retaining management, employees and consultants;
- costs for training physicians;
- our status as a Bulletin-Board listed company and the prospects for our stock to be listed on a national exchange; and
- uncertainty and economic instability resulting from terrorist acts and other acts of violence or war.

We may consume available resources more rapidly than currently anticipated, resulting in the need for additional funding. We may seek to raise any necessary additional funds through the issuance of warrants, equity or debt financings or executing collaborative arrangements with corporate partners or other sources, which may be dilutive to existing stockholders or otherwise have a material effect on our current or future business prospects. In addition, in the event that additional funds are obtained through arrangements with collaborative partners or other sources, we may have to relinquish economic and/or proprietary rights to some of our technologies or products under development that we would otherwise seek to develop or commercialize by ourselves. If adequate funds are not available, we may be required to significantly reduce or refocus our development efforts with regard to our drug compounds. Currently, we believe that we have available cash sufficient to meet our working capital requirements into late 2008, assuming our expense levels do not exceed our current plan. If we do not generate revenues or raise additional capital, we will not be able to sustain our operations at existing levels beyond that date or earlier if expense levels increase.

The failure to complete development of our therapeutic technology, obtain government approvals, including required U.S. Food and Drug Administration (FDA) approvals, or to comply with ongoing governmental regulations could prevent, delay or limit introduction or sale of proposed products and result in failure to achieve revenues or maintain our ongoing business.

Our research and development activities and the manufacture and marketing of our intended products are subject to extensive regulation for safety, efficacy and quality by numerous government authorities in the United States and abroad. Before receiving FDA clearance to market our proposed products, we will have to demonstrate that our products are safe and effective on the patient population and for the diseases that are to be treated. Clinical trials, manufacturing and marketing of drugs are subject to the rigorous testing and approval process of the FDA and equivalent foreign regulatory authorities. The Federal Food, Drug and Cosmetic Act and other federal, state and foreign statutes and regulations govern and influence the testing, manufacturing, labeling, advertising, distribution and promotion of drugs and medical devices. As a result, clinical trials and regulatory approval can take many years to accomplish and require the expenditure of substantial financial, managerial and other resources.

In order to be commercially viable, we must successfully research, develop, obtain regulatory approval for, manufacture, introduce, market and distribute our technologies. For each drug utilizing oxidized glutathione-based compounds, including NOV-002 and NOV-205, we must successfully meet a number of critical developmental milestones including:

- demonstrating benefit from delivery of each specific drug for specific medical indications;
- demonstrating through pre-clinical and clinical trials that each drug is safe and effective; and
- demonstrating that we have established a viable Good Manufacturing Practices capable of potential scale-up.

The timeframe necessary to achieve these developmental milestones may be long and uncertain, and we may not successfully complete these milestones for any of our intended products in development.

In addition to the risks previously discussed, our technology is subject to additional developmental risks that include the following:

- uncertainties arising from the rapidly growing scientific aspects of drug therapies and potential treatments;
- uncertainties arising as a result of the broad array of alternative potential treatments related to cancer, hepatitis and other diseases; and
- anticipated expense and time believed to be associated with the development and regulatory approval of treatments for cancer, hepatitis and other diseases.

In order to conduct the clinical trials that are necessary to obtain approval by the FDA to market a product, it is necessary to receive clearance from the FDA to conduct such clinical trials. The FDA can halt clinical trials at any time for safety reasons or because we or our clinical investigators do not follow the FDA's requirements for conducting clinical trials. If we are unable to receive clearance to conduct clinical trials or the trials are halted by the FDA, we would not be able to achieve any revenue from such product, as it is illegal to sell any drug for human consumption in the U.S. without FDA approval.

Data obtained from clinical trials is susceptible to varying interpretations, which could delay, limit or prevent regulatory clearances.

Data already obtained, or in the future obtained, from pre-clinical studies and clinical trials does not necessarily predict the results that will be obtained from later pre-clinical studies and clinical trials. Moreover, pre-clinical and clinical data are susceptible to varying interpretations, which could delay, limit or prevent regulatory approval. A number of companies in the pharmaceutical industry have suffered significant setbacks in advanced clinical trials, even after promising results in earlier trials. The failure to adequately demonstrate the safety and effectiveness of an intended product under development could delay or prevent regulatory clearance of the potential drug, resulting in delays to commercialization, and could materially harm our business. Our clinical trials may not demonstrate sufficient levels of safety and efficacy necessary to obtain the requisite regulatory approvals for our drugs, and our proposed drugs may not be approved for marketing.

We may encounter delays or rejections based on additional government regulation from future legislation or administrative action or changes in FDA policy during the period of development, clinical trials and FDA regulatory review. We may encounter similar delays in foreign countries. Sales of our products outside the U.S. would be subject to foreign regulatory approvals that vary from country to country. The time required to obtain approvals from foreign countries may be shorter or longer than that required for FDA approval, and requirements for foreign licensing may differ from FDA requirements. We may be unable to obtain requisite approvals from the FDA and foreign regulatory authorities, and even if obtained, such approvals may not be on a timely basis, or they may not cover the uses that we request.

Even if we do ultimately receive FDA approval for any of our products, it will be subject to extensive ongoing regulation. This includes regulations governing manufacturing, labeling, packaging, testing, dispensing, prescription and procurement quotas, record keeping, reporting, handling, shipment and disposal of any such drug. Failure to obtain and maintain required registrations or comply with any applicable regulations could further delay or preclude us from developing and commercializing our drugs and subject us to enforcement action.

Our drugs or technology may not gain FDA approval in clinical trials or be effective as a therapeutic agent, which could affect our future profitability and prospects.

In order to obtain regulatory approvals, we must demonstrate that each drug is safe and effective for use in humans and functions as a therapeutic against the effects of a disease or other physiological response. To date, studies conducted in Russia involving our NOV-002 and NOV-205 products have shown what we believe to be promising results. In fact, NOV-002 has been approved for use in Russia for general medicinal use as an immunostimulant in combination with chemotherapy and antimicrobial therapy, and specifically for indications such as tuberculosis and psoriasis. NOV-205 has been approved in Russia as a monotherapy agent for the treatment of hepatitis B and C. Russian regulatory approval is not equivalent to FDA approval. Pivotal Phase 3 studies with a large number of patients, typically required for FDA approval, were not conducted for NOV-002 and NOV-205 in Russia. Further, all of our Russian clinical studies were completed prior to 2000 and may not have been conducted in accordance with current guidelines either in Russia or the United States.

A U.S.-based Phase 1/2 clinical trial of NOV-002 involving 44 non-small cell lung cancer patients provided what we believe to be a favorable outcome. As a result, we enrolled the first patient in the pivotal Phase 3 trial of NOV-002 for non-small cell lung cancer in November 2006. We reached our enrollment target in March 2008 and we expect trial conclusion mid-2009. We enrolled the first patient in the Phase 2 clinical study for NOV-002 for chemotherapy-resistant ovarian cancer in July 2006 and announced what we believe to be encouraging results from this ongoing study in June 2007. We also commenced a Phase 2 clinical study for NOV-002 for early-stage breast cancer and expect interim results in mid-2008. In December 2007, we concluded a U.S. Phase 1b clinical trial of NOV-205 for chronic hepatitis C non-responders based on favorable safety profile. There can be no assurance that we can demonstrate that these products are safe or effective in advanced clinical trials. We are also not able to give assurances that the results of the tests already conducted can be repeated or that further testing will support our applications for regulatory approval. As a result, our drug and technology research program may be curtailed, redirected or eliminated at any time.

There is no guarantee that we will ever generate substantial revenue or become profitable even if one or more of our drugs are approved for commercialization.

We expect to incur increasing operating losses over the next several years as we incur increasing costs for research and development and clinical trials. Our ability to generate revenue and achieve profitability depends on our ability, alone or with others, to complete the development of, obtain required regulatory approvals for and manufacture, market and sell our proposed products. Development is costly and requires significant investment. In addition, if we choose to license or obtain the assignment of rights to additional drugs, the license fees for such drugs may increase our costs.

To date, we have not generated any revenue from the commercial sale of our proposed products or any drugs and do not expect to receive such revenue in the near future. Our primary activity to date has been research and development. A substantial portion of the research results and observations on which we rely were performed by third parties at those parties' sole or shared cost and expense. We cannot be certain as to when or whether to anticipate commercializing and marketing our proposed products in development, and do not expect to generate sufficient revenues from proposed product sales to cover our expenses or achieve profitability in the near future.

We rely solely on research and manufacturing facilities at various universities, hospitals, contract research organizations and contract manufacturers for all of our research, development, and manufacturing, which could be materially delayed should we lose access to those facilities.

At the present time, we have no research, development or manufacturing facilities of our own. We are entirely dependent on contracting with third parties to use their facilities to conduct research, development and manufacturing. Our inability to have the facilities to conduct research, development and manufacturing may delay or impair our ability to gain FDA approval and commercialization of our drug delivery technology and products.

We currently maintain a good working relationship with our contractors. Should the situation change and we are required to relocate these activities on short notice, we do not currently have an alternate facility where we could relocate our research, development and/or manufacturing activities. The cost and time to establish or locate an alternate research, development and/or manufacturing facility to develop our technology would be substantial and would delay gaining FDA approval and commercializing our products.

We are dependent on our collaborative agreements for the development of our technologies and business development, which expose us to the risk of reliance on the viability of third parties.

In conducting our research, development and manufacturing activities, we rely and expect to continue to rely on numerous collaborative agreements with universities, hospitals, governmental agencies, charitable foundations, manufacturers and others. The loss of or failure to perform under any of these arrangements, by any of these entities, may substantially disrupt or delay our research, development and manufacturing activities including our anticipated clinical trials.

We may rely on third-party contract research organizations, service providers and suppliers to support development and clinical testing of our products. Failure of any of these contractors to provide the required services in a timely manner or on reasonable commercial terms could materially delay the development and approval of our products, increase our expenses and materially harm our business, financial condition and results of operations.

We are exposed to product, clinical and preclinical liability risks that could create a substantial financial burden should we be sued.

Our business exposes us to potential product liability and other liability risks that are inherent in the testing, manufacturing and marketing of pharmaceutical products. We cannot assure that such potential claims will not be asserted against us. In addition, the use in our clinical trials of pharmaceutical products that we may develop and then subsequently sell or our potential collaborators may develop and then subsequently sell may cause us to bear a portion of or all product liability risks. A successful liability claim or series of claims brought against us could have a material adverse effect on our business, financial condition and results of operations.

Although we have not received any product liability claims to date, we have an insurance policy of \$5,000,000 per occurrence and \$5,000,000 in the aggregate to cover such claims should they arise. There can be no assurance that material claims will not arise in the future or that our insurance will be adequate to cover all situations. Moreover, there can be no assurance that such insurance, or additional insurance, if required, will be available in the future or, if available, will be available on commercially reasonable terms. Any product liability claim, if successful, could have a material adverse effect on our business, financial condition and results of operations. Furthermore, our current and potential partners with whom we have collaborative agreements or our future licensees may not be willing to indemnify us against these types of liabilities and may not themselves be sufficiently insured or have a net worth sufficient to satisfy any product liability claims. Claims or losses in excess of any product liability insurance coverage that may be obtained by us could have a material adverse effect on our business, financial condition and results of operations.

Acceptance of our products in the marketplace is uncertain and failure to achieve market acceptance will prevent or delay our ability to generate revenues.

Our future financial performance will depend, at least in part, on the introduction and customer acceptance of our proposed products. Even if approved for marketing by the necessary regulatory authorities, our products may not achieve market acceptance. The degree of market acceptance will depend on a number of factors including:

- the receipt of regulatory clearance of marketing claims for the uses that we are developing;
- the establishment and demonstration of the advantages, safety and efficacy of our technologies;
- pricing and reimbursement policies of government and third-party payers such as insurance companies, health maintenance organizations and other health plan administrators;
- our ability to attract corporate partners, including pharmaceutical companies, to assist in commercializing our intended products; and
- our ability to market our products.

Physicians, patients, payers or the medical community in general may be unwilling to accept, utilize or recommend any of our products. If we are unable to obtain regulatory approval or commercialize and market our proposed products when planned, we may not achieve any market acceptance or generate revenue.

We may face litigation from third parties who claim that our products infringe on their intellectual property rights, particularly because there is often substantial uncertainty about the validity and breadth of medical patents.

We may be exposed to future litigation by third parties based on claims that our technologies, products or activities infringe on the intellectual property rights of others or that we have misappropriated the trade secrets of others. This risk is exacerbated by the fact that the validity and breadth of claims covered in medical technology patents and the breadth and scope of trade-secret protection involve complex legal and factual questions for which important legal principles are unresolved. Any litigation or claims against us, whether or not valid, could result in substantial costs, could place a significant strain on our financial and managerial resources and could harm our reputation. Most of our license agreements would likely require that we pay the costs associated with defending this type of litigation. In addition, intellectual property litigation or claims could force us to do one or more of the following:

- cease selling, incorporating or using any of our technologies and/or products that incorporate the challenged intellectual property, which would adversely affect our future revenue;
- obtain a license from the holder of the infringed intellectual property right, which license may be costly or may not be available on reasonable terms, if at all; or
- redesign our products, which would be costly and time-consuming.

If we are unable to adequately protect or enforce our rights to intellectual property or secure rights to third-party patents, we may lose valuable rights, experience reduced market share, assuming any, or incur costly litigation to protect such rights.

Our ability to obtain licenses to patents, maintain trade secret protection and operate without infringing the proprietary rights of others will be important to our commercializing any products under development. Therefore, any disruption in access to the technology could substantially delay the development of our technology. The patent positions of biotechnology and pharmaceutical companies, including us, that involve licensing agreements, are frequently uncertain and involve complex legal and factual questions. In addition, the coverage claimed in a patent application can be significantly reduced before the patent is issued or in subsequent legal proceedings. Consequently, our patent applications and any issued and licensed patents may not provide protection against competitive technologies or may be held invalid if challenged or circumvented. Our competitors may also independently develop products similar to ours or design around or otherwise circumvent patents issued or licensed to us. In addition, the laws of some foreign countries may not protect our proprietary rights to the same extent as U.S. law.

We also rely on trade secrets, technical know-how and continuing technological innovation to develop and maintain our competitive position. We generally require our employees, consultants, advisors and collaborators to execute appropriate confidentiality and assignment-of-inventions agreements. Our competitors may independently develop substantially equivalent proprietary information and techniques, reverse engineer our information and techniques, or otherwise gain access to our proprietary technology. We may be unable to meaningfully protect our rights in trade secrets, technical know-how and other non-patented technology.

Although our trade secrets and technical know-how are important, our continued access to the patents is a significant factor in the development and commercialization of our products. Aside from the general body of scientific knowledge from other drug delivery processes and technology, these patents, to the best of our knowledge and based on our current scientific data, are the only intellectual property necessary to develop our products, including NOV-002 and NOV-205. We do not believe that we are or will be violating any patents in developing our technology.

We may have to resort to litigation to protect our rights for certain intellectual property, or to determine their scope, validity or enforceability. Enforcing or defending our rights is expensive, could cause diversion of our resources and may not prove successful. Any failure to enforce or protect our rights could cause us to lose the ability to exclude others from using our technology to develop or sell competing products.

We have limited manufacturing experience and, if our products are approved, we may not be able to manufacture sufficient quantities at an acceptable cost, or may be subject to risk that contract manufacturers could experience shut-downs or delays.

We remain in the research and development and clinical and pre-clinical trial phase of product commercialization. Accordingly, if our products are approved for commercial sale, we will need to establish the capability to commercially manufacture our products in accordance with FDA and other regulatory requirements. We have limited experience in establishing, supervising and conducting commercial manufacturing. If we fail to adequately establish, supervise and conduct all aspects of the manufacturing processes, we may not be able to commercialize our products.

We presently plan to rely on third-party contractors to manufacture our products. This may expose us to the risks of not being able to directly oversee the production and quality of the manufacturing process. Furthermore, these contractors, whether foreign or domestic, may experience regulatory compliance difficulties, mechanical shutdowns, employee strikes or other unforeseeable acts that may delay production.

Due to our limited marketing, sales and distribution experience, we may be unsuccessful in our efforts to sell our products, enter into relationships with third parties or develop a direct sales organization.

We have not yet had to establish marketing, sales or distribution capabilities for our proposed products. Until such time as our products are further along in the regulatory process, we will not devote any meaningful time and resources to this effort. At the appropriate time, we intend to enter into agreements with third parties to sell our products or we may develop our own sales and marketing force. We may be unable to establish or maintain third-party relationships on a commercially reasonable basis, if at all. In addition, these third parties may have similar or more established relationships with our competitors.

If we do not enter into relationships with third parties for the sale and marketing of our products, we will need to develop our own sales and marketing capabilities. We have limited experience in developing, training or managing a sales force. If we choose to establish a direct sales force, we may incur substantial additional expenses in developing, training and managing such an organization. We may be unable to build a sales force on a cost-effective basis or at all. Any such direct marketing and sales efforts may prove to be unsuccessful. In addition, we will compete with many other companies that currently have extensive marketing and sales operations. Our marketing and sales efforts may be unable to compete against these other companies. We may be unable to establish a sufficient sales and marketing organization on a timely basis, if at all.

We may be unable to engage qualified distributors. Even if engaged, these distributors may:

- fail to adequately market our products
- fail to satisfy financial or contractual obligations to us;
- offer, design, manufacture or promote competing products ; or
- cease operations with little or no notice.

If we fail to develop sales, marketing and distribution channels, we would experience delays in product sales and incur increased costs, which would harm our financial results.

If we are unable to convince physicians as to the benefits of our intended products, we may incur delays or additional expense in our attempt to establish market acceptance.

Achieving broad use of our products may require physicians to be informed regarding these products and their intended benefits. The time and cost of such an educational process may be substantial. Inability to successfully carry out this physician education process may adversely affect market acceptance of our products. We may be unable to timely educate physicians regarding our intended products in sufficient numbers to achieve our marketing plans or to achieve product acceptance. Any delay in physician education may materially delay or reduce demand for our products. In addition, we may expend significant funds towards physician education before any acceptance or demand for our products is created, if at all.

Fluctuations in foreign exchange rates could increase costs to complete international clinical trial activities.

We have initiated a portion of our clinical trial activities in both Western and Eastern Europe. We anticipate that approximately 40% of the remaining Phase 3 clinical trial budget of approximately \$12 million will be incurred in Euros. Significant depreciation in the value of the U.S. Dollar against principally the Euro could adversely affect our ability to complete the trials, particularly if we are unable to redirect funding or raise additional funds. Since the timing and amount of foreign-denominated payments are uncertain and dependent on a number of factors, it is difficult to cost-effectively hedge the potential exposure. Therefore, to date, we have not entered into any foreign currency hedges to mitigate the potential exposure.

The market for our products is rapidly changing and competitive, and new therapeutics, new drugs and new treatments that may be developed by others could impair our ability to maintain and grow our business and remain competitive.

The pharmaceutical and biotechnology industries are subject to rapid and substantial technological change. Developments by others may render our technologies and intended products noncompetitive or obsolete, or we may be unable to keep pace with technological developments or other market factors. Technological competition from pharmaceutical and biotechnology companies, universities, governmental entities and others diversifying into the field is intense and is expected to increase. Most of these entities have significantly greater research and development capabilities and budgets than we do, as well as substantially more marketing, manufacturing, financial and managerial resources. These entities represent significant competition for us. Acquisitions of, or investments in, competing pharmaceutical or biotechnology companies by large corporations could increase such competitors' financial, marketing, manufacturing and other resources.

We are an early-stage enterprise that operates with limited day-to-day business management, serves as a vehicle to hold certain technology for possible future exploration, and has been and will continue to be engaged in the development of new drugs and therapeutic technologies. As a result, our resources are limited and we may experience management, operational or technical challenges inherent in such activities and novel technologies. Competitors have developed or are in the process of developing technologies that are, or in the future may be, the basis for competition. Some of these technologies may have an entirely different approach or means of accomplishing similar therapeutic effects from our technology. Our competitors may develop drugs and drug delivery technologies that are more effective than our intended products and, therefore, present a serious competitive threat to us.

The potential widespread acceptance of therapies that are alternatives to ours may limit market acceptance of our products even if commercialized. Many of our targeted diseases and conditions can also be treated by other medication or drug delivery technologies. These treatments may be widely accepted in medical communities and have a longer history of use. The established use of these competitive drugs may limit the potential for our technologies and products to receive widespread acceptance if commercialized.

If users of our products are unable to obtain adequate reimbursement from third-party payers, or if new restrictive legislation is adopted, market acceptance of our products may be limited and we may not achieve anticipated revenues.

The continuing efforts of government and insurance companies, health maintenance organizations and other payers of healthcare costs to contain or reduce costs of health care may affect our future revenues and profitability, and the future revenues and profitability of our potential customers, suppliers and collaborative partners and the availability of capital. For example, in certain foreign markets, pricing or profitability of prescription pharmaceuticals is subject to government control. In the United States, given recent federal and state government initiatives directed at lowering the total cost of health care, the U.S. Congress and state legislatures will likely continue to focus on healthcare reform, the cost of prescription pharmaceuticals and the reform of the Medicare and Medicaid systems. While we cannot predict whether any such legislative or regulatory proposals will be adopted, the announcement or adoption of such proposals could materially harm our business, financial condition and results of operations. Our ability to commercialize our products will depend in part on the extent to which appropriate reimbursement levels for the cost of our products and related treatment are obtained by governmental authorities, private health insurers and other organizations, such as health maintenance organizations (HMOs). Third-party payers are increasingly challenging the prices charged for medical drugs and services. Also, the trend toward managed health care in the United States and the concurrent growth of organizations such as HMOs that could control or significantly influence the purchase of healthcare services and drugs, as well as legislative proposals to reform health care or reduce government insurance programs, may all result in lower prices for or rejection of our drugs. The cost containment measures that healthcare payers and providers are instituting and the effect of any healthcare reform could materially harm our ability to operate profitably.

We depend on key personnel who may terminate their employment with us at any time, and we would need to hire additional qualified personnel.

Our success will depend to a significant degree on the continued services of key management and advisors to us. There can be no assurance that these individuals will continue to provide service to us. In addition, our success will depend on our ability to attract and retain other highly skilled personnel. We may be unable to recruit such personnel on a timely basis, if at all. Our management and other employees may voluntarily terminate their employment with us at any time. The loss of services of key personnel, or the inability to attract and retain additional qualified personnel, could result in delays in development or approval of our products, loss of sales and diversion of management resources.

Compliance with changing corporate governance and public disclosure regulations may result in additional expense.

Keeping abreast of, and in compliance with, changing laws, regulations and standards relating to corporate governance, public disclosure and internal controls, including the Sarbanes-Oxley Act of 2002, new SEC regulations and, in the event we seek and are approved for listing on a registered national securities exchange, the stock exchange rules will require an increased amount of management attention and external resources. We intend to continue to invest all reasonably necessary resources to comply with evolving standards, which may result in increased general and administrative expense and a diversion of management time and attention from revenue-generating activities to compliance activities. Beginning with the annual report for the fiscal year ending December 31, 2007 we were required to include a report of our management on internal control over financial reporting. In our annual report for the fiscal year ending December 31, 2009 we will be required to include an attestation report of our independent registered public accounting firm on internal control over financial reporting.

Our executive officers, directors and principal stockholders have substantial holdings, which could delay or prevent a change in corporate control favored by our other stockholders.

Our directors, officers and holders of our Series D preferred stock beneficially own, in the aggregate, approximately 51% of our outstanding voting shares. The interests of our current officers, directors and Series D investors may differ from the interests of other stockholders. Further, our current officers, directors and Series D investors may have the ability to significantly affect the outcome of all corporate actions requiring stockholder approval, including the following actions:

- the election of directors;
- the amendment of charter documents;
- issuance of blank-check preferred or convertible stock, notes or instruments of indebtedness which may have conversion, liquidation and similar features, or completion of other financing arrangements; or
- the approval of certain mergers and other significant corporate transactions, including a sale of substantially all of our assets, or merger with a publicly-traded shell or other company.

Our common stock could be further diluted as the result of the issuance of additional shares of common stock, convertible securities, warrants or options.

In the past, we have issued common stock, convertible securities, such as convertible preferred stock, and warrants in order to raise money. We have also issued options and warrants as compensation for services and incentive compensation for our employees and directors. We have shares of common stock reserved for issuance upon the conversion and exercise of these securities and may increase the shares reserved for these purposes in the future. Our issuance of additional common stock, convertible securities, options and warrants could affect the rights of our stockholders, and could reduce the market price of our common stock.

We are prohibited from taking certain actions and entering into certain transactions as a result of the issuance of our Series D preferred stock.

For as long as any shares of Series D Preferred Stock remain outstanding we are prohibited from taking certain actions or entering into certain transactions without the prior consent of the holders of outstanding shares of Series D preferred stock. We are prohibited from paying dividends to common stockholders, amending our certificate of incorporation, issuing any equity security or any security convertible into or exercisable for any equity security at a price of \$0.65 or less or with rights senior to the Series D Preferred Stock (except for certain exempted issuances), increasing the number of shares of Series D Preferred Stock or issuing any additional shares of Series D Preferred Stock other than the 420 shares designated in the Series D Certificate of Designations, or changing the number of our directors. We are also prohibited from entering into certain transactions such as selling or otherwise disposing of all or substantially all of our assets or intellectual property or entering into a merger or consolidation with another company unless we are the surviving corporation, the Series D Preferred Stock remains outstanding and there are no changes to the rights and preferences of the Series D Preferred Stock, redeeming or repurchasing any capital stock other than Series D Preferred Stock, or incurring any new debt for borrowed money in excess of \$500,000.

If the board of directors determines that any of these actions are in the best interest of the Company or our shareholders, we may be unable to complete them if we do not get the approval of the holders of the outstanding shares of Series D preferred stock.

We were unable to pay dividends to our preferred stockholders on March 31, 2008 and may be unable to pay dividends to preferred stockholders when due in future periods.

As a result of continuing losses during the year ended December 31, 2007 and the quarter ended March 31, 2008, as of March 31, 2008, we did not have legally available funds for the payment of dividends under Delaware corporate law. Accordingly, we were unable to pay dividends that were due to our Series B and Series C preferred stockholders as of that date. The dividends were paid following the closing of our Series D financing, at which time we had funds legally available for the payment of such dividends. Our ability to pay dividends on stated future dividend payment dates will be dependent on a number of factors including the timing of future financings and the amount of net losses in future periods.

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

On January 16, 2008, we issued 100,000 shares of our common stock to Howard Schneider, one of our directors, upon the exercise of his stock option at a price of \$0.01 per share for total consideration of \$1,000, pursuant to an option granted in February 2005.

Item 3. Defaults Upon Senior Securities

None.

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

None.

Item 5. Other Information

None.

Item 6. Exhibits

| Exhibit No. | Description | Filed with this Form 10-Q | Incorporated by Reference | | |
|-------------|--|---------------------------|---------------------------|-----------------|-------------|
| | | | Form | Filing Date | Exhibit No. |
| 2.1 | Agreement and plan of merger among Common Horizons, Inc., Nove Acquisition, Inc. and Novelos Therapeutics, Inc. dated May 26, 2005 | | 8-K | June 2, 2005 | 99.2 |
| 2.2 | Agreement and plan of merger between Common Horizons and Novelos Therapeutics, Inc. dated June 7, 2005 | | 10-QSB | August 15, 2005 | 2.2 |
| 3.1 | Amended and Restated Certificate of Incorporation filed as Exhibit A to the Certificate of Merger merging Nove Acquisition, Inc. with and into Novelos Therapeutics, Inc. dated May 26, 2005 | | 10-QSB | August 10, 2007 | 3.1 |
| 3.2 | Certificate of Merger merging Common Horizons, Inc. with and into Novelos Therapeutics, Inc. dated June 13, 2005 | | 10-QSB | August 10, 2007 | 3.2 |
| 3.3 | Certificate of Correction dated March 3, 2006 | | 10-QSB | August 10, 2007 | 3.3 |
| 3.4 | Certificate of Amendment to Amended and Restated Certificate of Incorporation dated July 16, 2007 | | 10-QSB | August 10, 2007 | 3.4 |

| Exhibit No. | Description | Filed with this Form 10-Q | Incorporated by Reference | | |
|-------------|--|---------------------------|---------------------------|-----------------|-------------|
| | | | Form | Filing Date | Exhibit No. |
| 3.5 | Certificate of Designations of Series B convertible preferred stock | | 10-QSB | August 10, 2007 | 3.5 |
| 3.6 | Certificate of Designations of Series C cumulative convertible preferred stock | | 10-QSB | August 10, 2007 | 3.6 |
| 3.7 | Certificate of Designations of Series D convertible preferred stock | | 8-K | April 14, 2008 | 4.1 |
| 3.8 | Certificate of Elimination Series A 8% Cumulative Convertible Preferred Stock of Novelos Therapeutics, Inc. | | 8-K | April 14, 2008 | 4.2 |
| 3.9 | By-Laws | | 8-K | June 17, 2005 | 2 |
| 10.1 | Securities Purchase Agreement dated March 26, 2008 | | 8-K | April 14, 2008 | 10.1 |
| 10.2 | Amendment to Securities Purchase Agreement dated April 9, 2008 | | 8-K | April 14, 2008 | 10.2 |
| 10.3 | Registration Rights Agreement dated April 11, 2008 | | 8-K | April 14, 2008 | 10.3 |
| 10.4 | Form of Common Stock Purchase Warrant dated April 11, 2008 issued pursuant to the Securities Purchase Agreement dated March 26, 2008 | | 8-K | April 14, 2008 | 4.3 |
| 10.5 | Warrant Amendment Agreement dated April 11, 2008 | | 8-K | April 14, 2008 | 10.5 |
| 10.6 | Amendment to Registration Rights Agreement dated April 11, 2008 | | 8-K | April 14, 2008 | 10.4 |
| 31.1 | Certification of the chief executive officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | X | | | |
| 31.2 | Certification of the chief financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 | X | | | |
| 32.1 | Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 | X | | | |

SIGNATURES

In accordance with the requirements of the Exchange Act, the registrant caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

NOVELOS THERAPEUTICS, INC.

Date: May 14, 2008

By: /s/ Harry S. Palmin

Harry S. Palmin

President and Chief Executive Officer