

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

**PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934**

DATE OF REPORT (DATE OF EARLIEST EVENT REPORTED)
March 18, 2010

NOVELOS THERAPEUTICS, INC.

(EXACT NAME OF REGISTRANT AS SPECIFIED IN CHARTER)

DELAWARE
(STATE OR OTHER JURISDICTION
OF INCORPORATION)

333-119366
(COMMISSION
FILE NUMBER)

04-3321804
(IRS EMPLOYER
IDENTIFICATION NO.)

One Gateway Center, Suite 504, Newton, Massachusetts 02458
(ADDRESS OF PRINCIPAL EXECUTIVE OFFICES) (ZIP CODE)

REGISTRANT'S TELEPHONE NUMBER, INCLUDING AREA CODE: (617) 244-1616

NOT APPLICABLE
(FORMER NAME OR FORMER ADDRESS, IF CHANGED SINCE LAST REPORT)

CHECK THE APPROPRIATE BOX BELOW IF THE FORM 8-K FILING IS INTENDED TO SIMULTANEOUSLY SATISFY THE FILING OBLIGATION OF THE REGISTRANT UNDER ANY OF THE FOLLOWING PROVISIONS:

- WRITTEN COMMUNICATIONS PURSUANT TO RULE 425 UNDER THE SECURITIES ACT (17 CFR 230.425)
 - SOLICITING MATERIAL PURSUANT TO RULE 14a-12 UNDER THE EXCHANGE ACT (17 CFR 240.14a-12)
 - PRE-COMMENCEMENT COMMUNICATIONS PURSUANT TO RULE 14d-2(b) UNDER THE EXCHANGE ACT (17 CFR 240.14d-2(b))
 - PRE-COMMENCEMENT COMMUNICATIONS PURSUANT TO RULE 13e-4(c) UNDER THE EXCHANGE ACT (17 CFR 240.13e-4(c))
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ITEM 7.01 REGULATION FD DISCLOSURE

A copy of the press release issued by us on March 18, 2010 announcing that the secondary endpoints were not met in Novelos' pivotal Phase 3 trial in advanced non-small cell lung cancer (NSCLC) with its lead product, NOV-002, and that the development of NOV-002 for NSCLC in combination with first-line paclitaxel and carboplatin chemotherapy, is furnished as Exhibit 99.1 and is incorporated by reference in this Item.

ITEM 8.01 OTHER MATERIAL EVENTS

As previously disclosed, on February 23, 2010, we received a report of the top-line results of our pivotal Phase 3 clinical trial in advanced NSCLC studying our lead product, NOV-002, in combination with first-line chemotherapy. Upon initial evaluation and review of the data contained in the report, we determined that the primary endpoint of improvement in overall survival was not met in the trial. After further analysis of the data in the report, we confirmed that the secondary endpoints also were not met in the pivotal Phase 3 trial, and that adding NOV-002 to paclitaxel and carboplatin chemotherapy was not statistically or meaningfully different in terms of efficacy-related endpoints or recovery from chemotherapy toxicity versus chemotherapy alone. On the basis of these results, we have determined to discontinue development of NOV-002 for NSCLC in combination with first-line paclitaxel and carboplatin chemotherapy.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

(c) Exhibits

<u>Number</u>	<u>Title</u>
99.1	Press Release dated March 18, 2010 entitled "Novelos Therapeutics Discontinues Current Development Program for NOV-002 in NSCLC."

SIGNATURE

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

Dated: March 18, 2010

NOVELOS THERAPEUTICS, INC.

By: /s/ Harry S. Palmin
Harry S. Palmin
President and Chief Executive Officer

EXHIBIT INDEX

Number	Title
99.1	Press Release dated March 18, 2010 entitled "Novelos Therapeutics Discontinues Current Development Program for NOV-002 in NSCLC."

FOR IMMEDIATE RELEASE

**NOVELOS THERAPEUTICS DISCONTINUES CURRENT
DEVELOPMENT PROGRAM FOR NOV-002 IN NSCLC**

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NOV-002 Phase 2 Development Continues in Breast Cancer Indication;

Seeking to Build Clinical Stage Oncology Pipeline

NEWTON, Mass., March 18, 2010 – **Novelos Therapeutics, Inc. (OTCBB: NVLT)**, a biopharmaceutical company focused on the development of therapeutics to treat cancer and hepatitis, today announced that primary and secondary endpoints were not met in Novelos' pivotal Phase 3 trial in advanced non-small cell lung cancer (NSCLC) with its lead product, NOV-002, in combination with first-line chemotherapy. Adding NOV-002 to paclitaxel and carboplatin chemotherapy was not statistically or meaningfully different in terms of efficacy-related endpoints or recovery from chemotherapy toxicity versus chemotherapy alone. NOV-002 was safe, as it did not add to the overall toxicity of chemotherapy. Detailed trial results are expected to be presented at the 2010 annual meeting of the American Society of Clinical Oncology (ASCO) taking place June 4-8 in Chicago, Illinois.

This randomized, controlled, open-label Phase 3 trial, conducted under a Special Protocol Assessment (SPA) and Fast Track designation, enrolled 903 patients with Stage IIIB/IV NSCLC and included all histological subtypes. The trial encompassed approximately 100 clinical sites in 12 countries and evaluated NOV-002 in combination with first-line paclitaxel and carboplatin chemotherapy versus paclitaxel and carboplatin alone. The primary efficacy endpoint of the trial was improvement in overall survival. Secondary endpoints included progression free survival, response rate and duration of response, recovery from chemotherapy-induced myelosuppression, determination of immunomodulation, quality of life and safety. Based on results from this Phase 3 trial, Novelos will discontinue development of NOV-002 for NSCLC in combination with first-line paclitaxel and carboplatin chemotherapy.

“We designed and executed a robust Phase 3 NSCLC trial, but disappointingly, NOV-002 did not work in this very difficult to treat indication in combination with this chemotherapy,” said Harry Palmin, President and CEO of Novelos. “Moving forward, our Phase 2 programs continue in cancer and hepatitis with our oxidized glutathione-based compounds. We expect results from an ongoing NOV-002 Phase 2 breast cancer trial in 3Q 2010, and are scheduled to present new NOV-002 nonclinical data at the American Association for Cancer Research (AACR) Annual Meeting in April 2010. We also expect to initiate a Phase 2 hepatitis C trial shortly with our second compound NOV-205. Meanwhile, we intend to rebuild our pipeline through licensing or acquiring clinical-stage oncology compounds, utilizing our experienced and proven development team.”

About Novelos Therapeutics, Inc.

Novelos Therapeutics, Inc. is a biopharmaceutical company commercializing oxidized glutathione-based compounds for the treatment of cancer and hepatitis. Novelos is seeking to build a pipeline through licensing or acquiring clinical stage compounds or technologies for oncology indications. Our lead compound, NOV-002, has been administered to approximately 1,000 cancer patients in clinical trials and is in Phase 2 development for solid tumors in combination with chemotherapy. Novelos has a partnership with Mundipharma, an independent associated company of Purdue Pharma, to develop and commercialize NOV-002 in Europe and Asia (excluding China). Novelos' second compound, NOV-205, which has been administered to approximately 200 hepatitis patients in clinical trials, is in Phase 2 development for chronic hepatitis C non-responders. Both compounds have been partnered with Lee's Pharm in China. For additional information about Novelos please visit www.novelos.com

COMPANY

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This news release contains forward-looking statements. Such statements are valid only as of today, and we disclaim any obligation to update this information. These statements are subject to known and unknown risks and uncertainties that may cause actual future experience and results to differ materially from the statements made. These statements are based on our current beliefs and expectations as to such future outcomes. Drug discovery and development involve a high degree of risk. Factors that might cause such a material difference include, among others, uncertainties related to the ability to attract and retain partners for our technologies, the identification of lead compounds, the successful preclinical development thereof, the completion of clinical trials, the FDA review process and other government regulation, our pharmaceutical collaborators' ability to successfully develop and commercialize drug candidates, competition from other pharmaceutical companies, product pricing and third-party reimbursement.

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