

UNITED STATES
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: April 26, 2011
(Date of earliest event reported)

NOVELOS THERAPEUTICS, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

333-119366
(Commission
File Number)

04-3321804
(IRS Employer
Identification Number)

One Gateway Center, Suite 504
Newton, MA 02458
(Address of principal executive offices)

(617) 244-1616
(Registrant's telephone number, including area code)

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 (see General Instruction A.2. below):

- 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

On April 26, 2011, we issued a press release describing five new directors appointed concurrently with the acquisition of Collectar, Inc. on April 8, 2011. A copy of the press release is furnished as Exhibit 99.1 and is incorporated by reference in this Item.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

c) Exhibits

Number	Title
99.1	Press Release dated April 26, 2011 entitled "Novelos Therapeutics Welcomes Five New Directors"

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: April 26, 2011

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 April 26, 2011 entitled "Novelos Therapeutics Welcomes Five New Directors"

FOR IMMEDIATE RELEASE

NOVELOS THERAPEUTICS WELCOMES FIVE NEW DIRECTORS

MADISON, WI, April 26, 2011 – **Novelos Therapeutics, Inc. (OTCBB: NVLTD)**, a pharmaceutical company developing novel drugs for treatment and diagnosis of cancer, today announced that Dr. Rock Mackie, Mr. John Neis, Dr. John Niederhuber, Dr. Michael Tweedle and Dr. Jamey Weichert joined Novelos' board of directors concurrently with the closing of the recently announced acquisition of Cellectar, Inc.

“We are delighted to welcome these five new directors,” said Dr. Stephen Hill, Chairman of the Board of Novelos. “Their expertise and relevant backgrounds speak highly of the potential of our novel cancer-targeted compounds.”

Dr. Mackie, Professor of Medical Physics and Human Oncology at the University of Wisconsin, Madison, is a leading figure in the field of radiation therapy and Co-founder, Chairman and Director of Research of TomoTherapy.

Mr. Neis heads the healthcare practice at Venture Investors LLC and brings 23 years of life sciences venture capital experience.

Dr. Niederhuber is a nationally renowned surgeon and researcher who has dedicated his four-decade career to the treatment and study of cancer - as a professor, director of National Cancer Institute (2005-2010), National Cancer Advisory Board chair, grant reviewer and investigator.

Dr. Tweedle, Professor of Cancer Imaging in Radiology at Ohio State, has over 30 years experience in imaging and diagnostics, senior management and research, including former President of Bracco Research USA and head of diagnostics at Bristol-Myers Squibb.

Dr. Weichert, Novelos' Chief Scientific Officer and Technology Founder, has 25 years of imaging and radiotherapy design experience, and is an Associate Professor of Radiology and Medical Physics at University of Wisconsin, Madison.

About Novelos Therapeutics, Inc.

We are a pharmaceutical company developing novel drugs for the treatment and diagnosis of cancer. We currently have three cancer-targeted compounds, which are selectively taken up and retained in cancer cells (including cancer stem cells) versus normal cells. Thus, our therapeutic compounds directly kill cancer cells while minimizing harm to normal cells. This offers the potential for a paradigm shift in cancer therapy – efficacy versus all three major drivers of mortality in cancer: primary tumors, metastases and stem cell-based relapse. LIGHT is a small-molecule cancer imaging agent. We believe LIGHT has first-in-class potential and expect it to enter Phase 1/2 clinical trials middle of this year. HOT is a small-molecule, broad-spectrum, cancer-targeted radiopharmaceutical that delivers radiation directly and selectively to cancer cells and cancer stem cells. We believe HOT also has first-in-class potential, and we expect it to enter a Phase 1b dose escalation trial in the third quarter of this year and Phase 2 trials in mid-2012 as a monotherapy for solid tumors with significant unmet medical need. COLD, a cancer-targeted chemotherapy that we expect to enter clinical trials late in 2012, works primarily through Akt inhibition. Together, we believe our compounds are able to “find, treat and follow” cancer anywhere in the body in a novel, highly selective way. For additional information please visit www.novelos.com

COMPANY

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INVESTOR RELATIONS

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Novelos Therapeutics, Inc.
Madison, WI Boston, MA

This news release contains forward-looking statements. You can identify these statements by our use of words such as “may,” “expect,” “believe,” “anticipate,” “intend,” “could,” “estimate,” “continue,” “plans,” or their negatives or cognates. Such statements are valid only as of today, and we disclaim any obligation to update this information. These statements are only estimates and predictions and 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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