UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

CURRENT REPORT

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

Date of Report: November 21, 2013 (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)

3301 Agriculture Drive, Madison, WI 53716

(Address of principal executive offices)

(608) 441-8120

(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))	

ITEM 7.01 REGULATION FD DISCLOSURE

A copy of a slide presentation dated November, 2013, which provides an overview of our products and which we are making publicly available on our website, is furnished as Exhibit 99.1 and is incorporated by reference in this Item.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

(d) Exhibits

Number	Title
99.1	Novelos Therapeutics, Inc. Slide Presentation dated November, 2013

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.

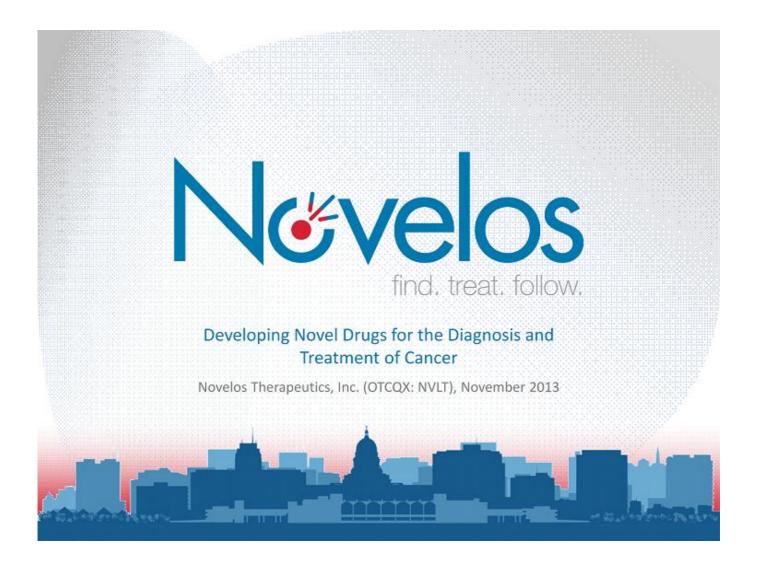
Dated: November 22, 2013 NOVELOS THERAPEUTICS, INC.

By: /s/ Joanne M. Protano
Name: Joanne M. Protano

Title: Vice President and Chief Financial Officer

EXHIBIT INDEX

Number	Title
99.1	Novelos Therapeutics, Inc. Slide Presentation dated November, 2013



Safe Harbor Statement



This slide presentation contains forward-looking statements. 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 raise additional capital required to complete the development programs described herein, 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 thirdparty reimbursement. A complete description of risks and uncertainties related to our business is contained in our periodic reports filed with the Securities and Exchange Commission including our Form 10-K for the year ended December 31, 2012 and in our quarterly reports on Form 10-Q. These forward looking statements are made only as of the date hereof, and we disclaim any obligation to update any such forward looking statements.

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Novelos at a Glance



- Broad-spectrum delivery platform with potential to image and treat a wide range of solid tumors
 - Tumor Imaging- More accurate for better patient management
 - Therapy- Better targeted delivery to cancer cells and cancer stem cells
 - Surgery- Intraoperative optical imaging for better outcomes
- Data from Phase I/II and Phase II trials expected in next 12-18 months:
 - · LIGHT: Phase II imaging trial in brain cancer
 - HOT: Phase Ib dose-escalation safety data
 - GLOW2: Phase I surgical imaging during lumpectomy
- Targeting indications with fastest path to commercial markets
- Substantial scale-up potential across many products / indications

Near Universal Cancer-Targeting Platform



- Phospholipid Ether Analog (PLE): Highly-Selective, Broad-Spectrum, Cancer-Targeting Delivery Platform with Multi-Product Diagnostic and Therapeutic Applications
 - Targets lipid rafts, a structure overexpressed by malignant cells and malignant stem cells
- Five Unique Attributes:
 - ✓ <u>Selectively taken up</u> by cancer cells AND cancer stem cells
 - Prolonged retention by cancer cells AND cancer stem cells
 - Broad spectrum of cancers selectively retained by all but 3 of over 60 xenograft, orthotopic, and transgenic solid cancer and cancer stem cell derived models examined to date
 - ✓ Imaging and therapeutic agents can be attached
 - ✓ <u>Diapeutic</u>: Imaging diagnostic is predictive of therapeutic deliver

Near-Universal targeting of both primary and metastatic cancers regardless of anatomic location

Nevelos 4

Near Universal Cancer-Targeting Platform



- Taken up and selectively retained by cancer cells
 - All but 3 of over 60 tumor models examined to date
 - Tumor uptake independent of anatomic location with little or no tumor clearance over time
- · Not taken up in inflammatory lesions or benign neoplasms (cancer-specific)
 - Major advantage over current FDG PET imaging
- · High safety index
 - Even at >800x anticipated human mass doses
 - Phase 1a dosimetry trial in humans (with I-131)

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Near Universal Cancer-Targeting Platform



Proprietary Phospholipid Ether (PLE) Analog

Cancer-Targeting Vehicle

Payload

Cancer-Targeted Payload



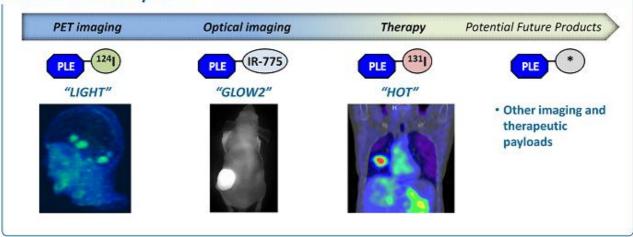








Products in Development



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LIGHT For Tumor Imaging



PLE + PET Imaging Isotope = LIGHT (1241-CLR1404)

More Accurate Tumor Imaging for Better Patient Management

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LIGHT (1241-CLR1404): PLE + PET Imaging Isotope



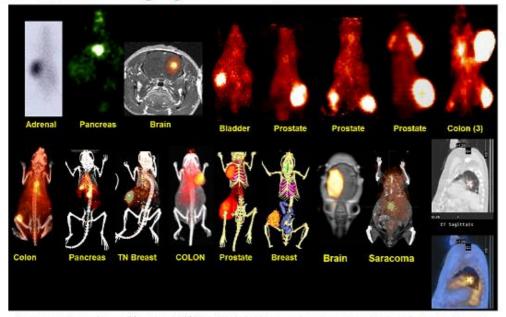
- Small-molecule, broad-spectrum imaging agent for primary tumors and metastases
 - Proprietary PLE attached to I-124 PET imaging isotope
- Phase I/II trials underway at UW Carbone Cancer Center (investigator sponsored)
 - Lung Cancer (Traynor/Perlman) (Image and dose optimization)
 - Glioma/ Brain tumors or Mets (Hall) (Image and dose optimization)
 - Multiple Tumor Protocol (Liu) (Image and dose optimization)
 - Prostate (Wilding, Liu, Med Onc)
 - o Pancreas (Weber)
 - Breast
 - o Head and neck (Speer/Harari. Rad Onc)
 - Others-9 total
- Positive initial images in brain cancer and 6 other solid tumors
 - Brain cancer
 - 15 patients to date
 - · High tumor-to-background uptake in glioma and brain metastases
 - Other solid tumors (< 3 patients): breast, lung, prostate, head & neck, colorectal and pancreatic

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LIGHT (1241-CLR1404): Tumor Uptake & Retention



Pan-Cancer Imaging with ¹²⁴I-CLR1404



Representative nuclear and/or microPET/CT or MRI hybrid images demonstrating primary and metastatic tumor conspicuity. Images were acquired from 24-96h post-i.v. injection (80-140 μ Ci of 124I-CLR1404) in a variety of human subcutaneous or orthotopic xenograft, spontaneously induced, or transgenic in vivo tumor models.

The images provided above and on the following three slides are for illustrative purposes only and may not be indicative of all results.

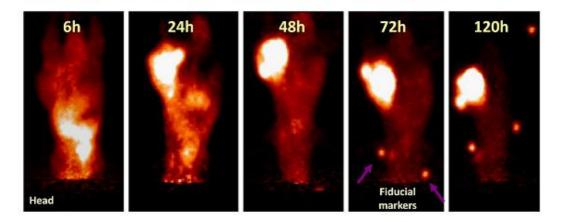
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LIGHT (1241-CLR1404): Tumor Uptake & Retention



124I-CLR1404 in PC3 Prostate Cancer SCID Mouse



μPET scans: Head down/tail up with flank tumor Tumor uptake evident at about 9h

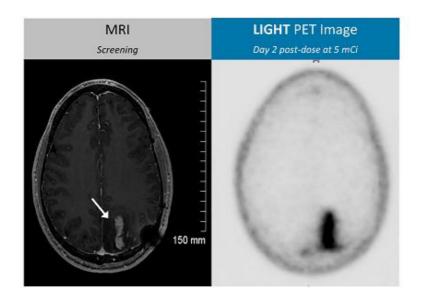
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Superior Tumor to Normal Tissue Uptake

¹²⁴I-CLR1404 'LIGHT' in Glioma patient





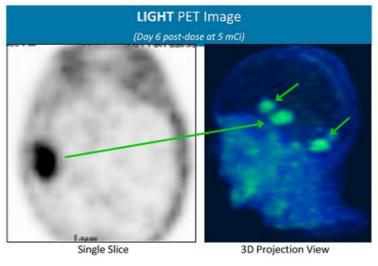
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Clearly Images Brain Metastases



LIGHT PET scan identified 3 brain metastases in an asymptomatic NSCLC patient

· Treatment plan subsequently altered



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Initial Target - Brain Cancer Imaging



- Significant unmet clinical need
- MRI is unable to distinguish recurrent disease from pseudoprogression
 - MRI is current Standard of Care (SOC)
 - MRIs show post-treatment changes in ~50% of all patients¹
 - Nearly half of the time, this signal is non-malignant pseudo-progression¹
- Significant patient benefit derived from earlier and definitive diagnosis of tumor progression
 - Treat only when appropriate
 - Avoid unnecessary therapies and interventions
 - · Detect progression earlier, minimize critical tissue infiltration

LIGHT: Phase II Imaging Trial in Glioma



Trial Design

- Multi-site, with an enrollment of ~36 patients
- Newly diagnosed or recurrent glioma where SOC includes resection and/or biopsy
- Comparison to MRI based on pathology confirmation
- Approval based on more accurate determination of malignant vs. nonmalignant tissue

Trial Objectives

- Demonstrate superior specificity over current SOC (MRI)
- Confirm optimal dose and imaging time points for Phase III pivotal trial

Start: Q1 2014

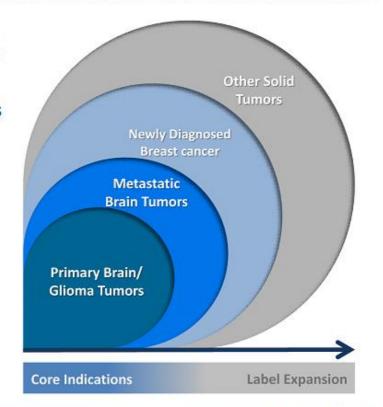
Data: Q4 2014

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Scalable Commercial Opportunity for LIGHT



- Establish efficacy in primary glioma followed by metastatic brain tumors
- Pursue additional solid tumors with initial positive images:
 - Prostate
 - Breast
 - Lung
 - Colorectal
 - Head & Neck
 - Pancreatic



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HOT For Targeted Therapy



PLE + Radiotherapeutic= HOT (1311-CLR1404)

Better targeted delivery to cancer cells and cancer stem cells

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Cancer Stem Cell (CSC) Paradigm



- Cancer stem cells have now been firmly associated with most, if not all, major cancer types.
- Numerous recent reports confirm that cancer stem cells do exist and are chemotherapy resistant.
- Glioma stem cells are also known to be up to 30% more radiation resistant relative to normal cancer cells.
- These cells affiliated with tumor regrowth and metastasis following chemo and radiation therapy.
- Tumor <u>hypoxia</u> stimulates <u>CSC propagation</u> leading to increased resistance and metastatic potential.

"Any new cancer treatment paradigm must address tumor heterogeneity including cancer stem cells" -Jeremy Rich and others

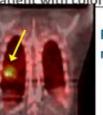
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Better Targeting = Better Therapeutic Delivery ¹³¹I-CLR1404 - 'HOT'



- Proprietary cancer-targeting delivery vehicle (PLE) attached to proven radiotherapeutic
 - Iodine-131, well-established as a cancer therapeutic FDA familiarity
- Preclinical single-dose data demonstrates remarkable in vivo efficacy coupled with excellent safety profile
- Phase Ib dose-escalation trial ongoing (Novelos IND) (UW, Georgetown, City of Hope)
 - 20-40-60 etc. (12.5 mCi/m2)
 - 3 dose cohort completed (4th cohort ongoing)

 Demonstrated uptake and prolonged retention only in tumors not normal tissue Patient with colorectal cancer - SPECT/CT at day 21 (26.8 mCi)



Pulmonary metastasis



Hepatic metastasis

The images provided above are for illustrative purposes only and may not be indicative of all results.

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GLOW2 For Surgical Imaging



PLE + Near-Infrared Fluorophore= GLOW2 (CLR1502)

Intraoperative Optical Imaging for Better Outcomes

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Improving Cancer Surgery Outcomes CLR1502 - 'GLOW2'



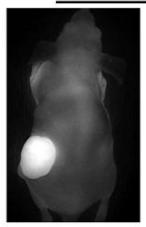
- · Optical imaging agent for intraoperative tumor margin illumination
 - Proprietary cancer-targeting delivery vehicle (PLE) attached to near-infrared fluorophore
- More accurate visualization of tumor margins <u>during</u> surgery for more complete malignant tissue removal
 - Better patient management and outcomes from fewer repeat surgeries and reduced recurrence
 - Potential for meaningful healthcare savings



Tumor Margin Illumination- Real Time Surgery CLR1502 - 'GLOW2'



Optical Imaging (800nm)



Non-Invasive Tumor Imaging



Intraoperative Tumor Margin Illumination in Real Time



HCT116 human colon tumor xenograft; 4 days post-GLOW2 injection

The images provided above are for illustrative purposes only and may not be indicative of all results.

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Unmet Need – Breast Cancer Surgery



Lumpectomy- complete removal of tumor while sparing functional tissue

- Challenging for surgeons to identify margins during surgery
- When post-surgery pathology indicates malignant tissue remains, surgery repeated

One in four lumpectomies are repeated (U.S)²

- Impact on patients: risk, discomfort, inconvenience, anxiety
- Significant healthcare cost: ~\$22,000 inpatient³
- Patient outcomes at risk: remaining malignant tissue could result in disease spread

"Margins Matter"

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GLOW2 Initial Human Trial

Phase I, Breast Cancer Surgery



Trial design

- Dose-ranging multi-site, ~20 patients undergoing lumpectomy
- Compatible with standard of care (SOC) only addition is GLOW2 administration and non-invasive optical imaging
- · Primary tumor and sentinel node resected according to SOC
- Optical imaging used to assess GLOW2 illumination of any remaining tumor margin or nodal involvement

Trial objective

 Demonstrate superiority versus current SOC to identify and differentiate malignant and non-malignant tissue during surgery based on pathology readout

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Opportunity Summary



- \$Billion+ potential aggregate markets: LIGHT and GLOW2⁴
 - · Efficacy Proof-of-Concept data expected in 12-18 months
 - · Opportunity for meaningful value transformation
- Therapeutic (HOT) represents potential additional upside
 - · Substantial data to help select efficacy target when the time is right
- Cancer-Targeting Platform offers multi-product opportunities
 - Tumor Imaging- More accurate for better patient management
 - Therapy- Better targeted delivery to cancer and cancer stem cells
 - Surgery- Intraoperative optical imaging for better outcomes
- Attractive Business Development Opportunities

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Summary Financial Outlook



Funding through February 2014

• \$5.1M cash at September 30, 2013

Capitalization

- 57M shares of common stock
- 101M shares fully diluted

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Strategic Realignment



New CEO: Simon Pedder

- · Appointed October 2013 to lead turnaround
- Former President & CEO, Chelsea Therapeutics (Nasdaq: CHTP)
- Previously held positions of increasing responsibility at Hoffmann-La Roche, including:
 - · Director of International Clinical Science
 - · Director of International Clinical Operations
 - · Global Project Leader of Pharmaceutical Development
 - · Life Cycle Leader, PEGASYS/IFN and Head of Hepatitis Franchise, Pharma Business
 - · Vice President of Pharma Business Oncology and Corporate Officer

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Strategic Realignment



Streamlined Board of Directors, adding new director and reducing overall size from 9 to 5 members

- · Stephen A. Hill, B.M. B.Ch., M.A., F.R.C.S., Chairman of the Board of Directors
- · Simon Pedder, Ph.D., CEO and Director
- · Jamey Weichert, Ph.D., Chief Scientific Officer, Technology Founder and Director
- · John Neis, Director
- Paul L. Berns, Appointed Director in November 2013
 - CEO, Allos Therapeutics acquired by Spectrum Pharmaceuticals, Inc. in 2012
 - CEO, Bone Care International, Inc. acquired by Genzyme Corporation in 2005
 - VP and general manager of the Immunology, Oncology and Pain Therapeutics business unit of Abbott Laboratories
 - Serves as member of the Board of Directors of Jazz Pharmaceuticals, Inc., Anacor Pharmaceuticals, Inc. and of XenoPort, Inc.

Strategic Realignment



Aligning Resources with Strategic Priorities

- · Relocating Executives Offices and Centralizing Operations in Madison, WI
 - Responsibilities of former MA based <u>VP</u>, <u>Clinical Development</u> and <u>VP</u>, <u>Research and Development</u> being transitioned to existing WI-based employees
 - Transitioning finance function, <u>including CFO responsibilities</u>, to WI following year-end reporting
- · Prioritizing Investor Relations and Business Development efforts
 - New VP of IR & PR tasked with increasing awareness of "new" Novelos
 - · Articulate new strategy
 - · Aggressively meet with new potential investors
 - · Increase institutional ownership and sell-side coverage
 - · Created new BD position
 - · Build industry awareness of company and technologies
 - · Explore non-dilutive partnership opportunities to offset R&D expense

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Going Forward



Disciplined execution in clinical programs

- Strong pipeline with history of peer reviewed NCI grants
- Defining new cancer imaging and therapy paradigms

Explore Partnership Opportunities

- Global/Regional licensing opportunities
- Therapeutic partnership opportunities

Meaningful development opportunities

- · Compelling near- and long-term opportunities
 - · Near-term Data Points
 - · Light Phase II Imaging Data in Glioma
 - · HOT Phase Ib Safety Data
 - · GLOW2 Phase I Optical Imaging Data
 - · Long-term: opportunity to expand development opportunities
- Get out and tell the story

Sources



¹Wen et al., N Engl J Med 2008

²Factors Associated with repeat Surgery After Initial Breast Conservation (Wilke L et al. Yao K 2012)

³HCUP: www.hcup-us.ahrq.gov/reports/statbriefs/sb86.jsp

⁴American Cancer Society, Cancer Facts and Figures, 2013