

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: September 4, 2014
(Date of earliest event reported)

CELLECTAR BIOSCIENCES, 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))
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ITEM 7.01 REGULATION FD DISCLOSURE

On September 4, 2014, we issued a press release announcing that the U.S. Food & Drug Administration (FDA) had accepted the Company's investigational new drug (IND) application to begin clinical study of I-131-CLR1404, a highly-selective, cancer-targeting radiopharmaceutical, in patients with relapsed or refractory multiple myeloma, an incurable cancer of plasma cells. A copy of the press release is furnished as Exhibit 99.1 and is incorporated by reference herein.

On September 5, 2014, we issued a press release announcing that Dr. Simon Pedder, chief executive officer, would be presenting a company overview at the Rodman & Renshaw 16th Annual Global Investment Conference being held September 8 - 10, 2014 at the New York Palace Hotel in New York and the Aegis Capital Healthcare and Technology Conference being held September 10 - 13, 2014 at the Encore at Wynn in Las Vegas. A copy of the press release is furnished as Exhibit 99.2 and is incorporated by reference herein.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

(d) Exhibits

Number	Title
99.1	Press release dated September 4, 2014, entitled “Cellestar Biosciences Announces Acceptance of Investigational New Drug Application to Evaluate I-131-CLR1404 in Clinical Trials in Relapsed or Refractory Multiple Myeloma”
99.2	Press release dated September 5, 2014, entitled “Cellestar Biosciences Announces Participation in Two Upcoming Investor Conferences in September”

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: September 8, 2014

CELLECTAR BIOSCIENCES, INC.

By: /s/ Chad J. Kolean

Name: Chad J. Kolean

Title: Vice President and Chief Financial Officer

EXHIBIT INDEX

Number	Title
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99.2	Press release dated September 5, 2014, entitled "Cellestar Biosciences Announces Participation in Two Upcoming Investor Conferences in September"



Cellecstar Biosciences Announces Acceptance of Investigational New Drug Application to Evaluate I-131-CLR1404 in Clinical Trials in Relapsed or Refractory Multiple Myeloma

MADISON, Wis., September 4, 2014, – Cellecstar Biosciences, Inc. (NASDAQ: CLRB), announced today that the U.S. Food & Drug Administration (FDA) has accepted the Company’s investigational new drug (IND) application to begin clinical study of I-131-CLR1404, a highly-selective, cancer-targeting radiopharmaceutical, in patients with relapsed or refractory multiple myeloma, an incurable cancer of plasma cells.

I-131-CLR1404 is radiotherapeutic comprised of a proprietary phospholipid ether (PLE) analog, acting as a cancer-targeted delivery and retention vehicle, covalently labeled with Iodine-131, a cytotoxic radioisotope that is already commonly used to treat thyroid and other cancer types. Because Cellecstar’s PLE platform has been shown to reliably and universally accumulate in malignant cancer cells, and the therapeutic properties of the Iodine-131 isotope are well known, I-131-CLR1404 is engineered to combine an intracellular radiation mechanism of destroying cancer cells, including cancer stem cells, through targeted delivery specific to malignant tissue that spares critical normal tissues from consequential radiation dose.

Cellecstar plans to initiate a Phase I/II, proof-of-concept trial during the fourth quarter 2014 in approximately 20 patients with relapsed or refractory multiple myeloma that have previously been treated with, or are intolerant of, an immunomodulator and a proteasome inhibitor. The primary objective of the study will be to determine the safety and tolerability of I-131-CLR1404, with and without concurrent weekly dexamethasone. In addition, the trial will seek to identify the recommended dose for future pivotal trials and determine therapeutic activity of I-131-CLR1404 in this patient population as measured by overall response rate, time to progression and duration of response.

“This trial affords us an opportunity to both assess the safety of I-131-CLR1404 in patients with multiple myeloma, but also to obtain near-term proof-of-concept data characterizing the activity of I-131-CLR1404 in this difficult-to-treat patient population,” commented Dr. Simon Pedder, president and chief executive officer. “Having initiated a Phase II diagnostic imaging trial of our lead compound, I-124-CLR1404, in glioblastoma earlier in the year, we are pleased to now have this opportunity to initiate a second, company-sponsored clinical trial with the potential to showcase the therapeutic applications of our targeted delivery platform.”

About Multiple Myeloma

According to the National Cancer Institute, multiple myeloma is the second most common hematologic cancer and results from an abnormality of plasma cells, usually in the bone marrow. It is estimated that 70,000 people are living with multiple myeloma and 24,000 new cases are diagnosed annually in the U.S., and that nearly 230,000 people are living with multiple myeloma and approximately 114,000 new cases are diagnosed annually, worldwide.

About Cellectar Biosciences, Inc.

Cellectar Biosciences is developing agents to detect, treat and monitor a broad spectrum of cancers. Using a novel phospholipid ether analog (PLE) platform technology as a targeted delivery and retention vehicle, Cellectar’s compounds are designed to be selectively taken up and retained in cancer cells including cancer stem cells. With the ability to attach both imaging and therapeutic agents to its proprietary delivery platform, Cellectar has developed a portfolio of product candidates engineered to leverage the unique characteristics of cancer cells to “find, treat and follow” malignancies in a highly selective way. I-124-CLR1404 is a small-molecule, broad-spectrum, cancer-targeted PET imaging agent currently being evaluated in a Phase II glioblastoma imaging trial. Additionally, multiple investigator-sponsored Phase I/II clinical trials are ongoing across 11 solid tumor indications. I-131-CLR1404 is a small-molecule, broad-spectrum, cancer-targeted molecular radiotherapeutic that delivers cytotoxic radiation directly and selectively to cancer cells including cancer stem cells. A Phase Ib dose-escalation trial of I-131-CLR1404 in patients with advanced solid tumors was completed in the first quarter of 2014 and results presented at the American Society of Clinical Oncology (ASCO) 2014 Annual Meeting. CLR1502 is a preclinical, cancer-targeted, non-radioactive optical imaging agent for intraoperative tumor margin illumination and non-invasive tumor imaging. For additional information please visit www.cellectar.com

INVESTOR CONTACT

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Cellecstar Biosciences, Inc.
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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. 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, 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. 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, 2013. These forward-looking statements are made only as of the date hereof, and we disclaim any obligation to update any such forward-looking statements.



Collectar Biosciences Announces Participation in Two Upcoming Investor Conferences in September

Rodman & Renshaw 16th Annual Global Investment Conference on September 9, 2014

Aegis Capital 2014 Healthcare and Technology Conference on September 11, 2014

Webcasts Available Through Collectar Corporate Website

MADISON, Wis., September 5, 2014, – Collectar Biosciences, Inc. (NASDAQ: CLRB), a clinical stage biopharmaceutical company developing innovative agents for the detection and treatment of cancer, announced that Dr. Simon Pedder, chief executive officer, will be presenting a company overview at the Rodman & Renshaw 16th Annual Global Investment Conference being held September 8 - 10, 2014 at the New York Palace Hotel in New York and the Aegis Capital Healthcare and Technology Conference being held September 10 - 13, 2014 at the Encore at Wynn in Las Vegas.

Event: Rodman & Renshaw 16th Annual Global Investment Conference

Date: Tuesday, September 9, 2014

Time: 1:40 p.m. Eastern Time

Location: New York Palace Hotel, New York, NY

Event: Aegis Capital Healthcare and Technology Conference

Date: Thursday, September 11, 2014

Time: 2:30 p.m. Pacific Time (5:30 p.m. Eastern Time)

Location: Encore at Wynn, Las Vegas, NV

Live audio webcasts of both the Rodman & Renshaw presentation and the Aegis Capital presentation will be available on the Company's website on the Investor Relations Events page at <http://investor.cellectar.com/events.cfm>. The webcast replays will be available approximately two hours after each presentation ends and will be accessible for 90 days.

About Cellectar Biosciences, Inc.

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