
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 (Date of Earliest Event Reported): July 6, 2009

Protalix BioTherapeutics, Inc.
(Exact name of registrant as specified in its charter)

Florida
(State or other jurisdiction
of incorporation)

000-27836
(Commission File Number)

65-0643773
(IRS Employer
Identification No.)

2 Snunit Street
Science Park, POB 455
Carmiel, Israel
(Address of principal executive offices)

20100
(Zip Code)

Registrant's telephone number, including area code +972-4-988-9488

(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 (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 8.01. Other Events

On July 6, 2009, Protalix BioTherapeutics, Inc. (the “Company”) issued a press release announcing that it was approached by the U.S. Food and Drug Administration (FDA) and asked to consider submitting a treatment protocol for the use of prGCD in patients with Gaucher disease in order to address an expected shortage of the drug Cerezyme®. A copy of the press release is attached hereto as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits**(d) Exhibits**

99.1 Press release dated July 6, 2009.

SIGNATURES

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.

PROTALIX BIOTHERAPEUTICS, INC.

Date: July 6, 2009

By: /s/ David Aviezer
Name: David Aviezer, Ph.D.
Title: President and Chief Executive Officer

Protalix Approached by the FDA to Consider Submitting a Treatment Protocol for the Use of prGCD in Patients with Gaucher Disease Allowing Expanded Access to prGCD

CARMIEL, Israel, July 6, 2009 (Business Wire) — Protalix BioTherapeutics, Inc. (NYSE-Amex:PLX), announced today that it was approached by the U.S. Food and Drug Administration (FDA) and asked to consider submitting a treatment protocol for the use of prGCD in patients with Gaucher disease in order to address an expected shortage of the drug Cerezyme®, a mammalian cell expressed version of glucocerebrosidase (GCD) and the only enzyme replacement therapy currently approved for Gaucher disease. Gaucher disease is a rare and serious lysosomal storage disorder in humans with severe and debilitating symptoms. prGCD, the Company's lead product candidate, is a proprietary plant-cell expressed recombinant form of glucocerebrosidase and is currently the subject of a Phase III clinical trial for the treatment of Gaucher disease.

The FDA indicated to the Company that it believes the Company's development program for prGCD satisfies the regulatory criteria required to supply prGCD for expanded access to patients under a treatment protocol. Under current FDA regulations, a treatment protocol may be submitted for a drug that has not yet been approved for marketing but is the subject of clinical development for a serious or life threatening disease for which no comparable or satisfactory alternative drug or therapy is available. The Company and the FDA are discussing the parameters of a proposed treatment protocol which would allow an increased number of patients with Gaucher disease to have access to prGCD. The Company expects to submit a treatment protocol to the FDA for its review as a supplement to the Company's current Investigational New Drug (IND) application for prGCD.

About Protalix BioTherapeutics

Protalix is a biopharmaceutical company. Its goal is to become a fully integrated biopharmaceutical company focused on the development and commercialization of proprietary recombinant therapeutic proteins to be expressed through its proprietary plant cell based expression system. Protalix's ProCellEx(TM) presents a proprietary method for the expression of recombinant proteins that Protalix believes will allow for the cost-effective, industrial-scale production of recombinant therapeutic proteins in an environment free of mammalian components and viruses. Protalix is conducting a Phase III pivotal study for its lead product candidate, prGCD, to be used in enzyme replacement therapy for Gaucher disease, a lysosomal storage disorder in humans. Protalix has reached an agreement with the United States Food and Drug Administration on the final design of the pivotal Phase III clinical trial through the FDA's Special Protocol Assessment (SPA) process. Protalix has completed enrollment for this study and is treating patients in its pivotal Phase III clinical trial in North America, South America, Israel, Europe and South Africa. The study is monitored by an independent Data Monitoring Committee, including experts in the field, who monitor the on-going safety data, which has recently held their last scheduled meeting before the end of the trial. No serious

adverse events have been reported in the study. Protalix is also advancing additional recombinant biopharmaceutical drug development programs.

Safe Harbor Statement:

To the extent that statements in this press release are not strictly historical, all such statements are forward-looking, and are made pursuant to the safe-harbor provisions of the Private Securities Litigation Reform Act of 1995. These forward-looking 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 material differences include, among others, risks relating to: the successful preclinical development of our product candidates; the completion of clinical trials; the review process of the FDA, foreign regulatory bodies and other governmental regulation, including the FDA's review of any filings we make in connection with the treatment protocol; delays in the FDA's or other health regulatory authorities' approval of any applications we file or refusals to approve such filings; refusals by such regulatory authority to approve the marketing and sale of a drug product even after acceptance of an application we file for any such drug product; the identification of lead compounds; the risk that we may fail to satisfy certain conditions relating to grants we have received from the Office of the Chief Scientist of Israel's Ministry of Industry and Trade which may lead to our being required to refund grants previously received together with interest and penalties; the risk that the Office of the Chief Scientist may not deliver to us all of the funds awarded to us; uncertainties related to the ability to attract and retain partners for our technologies and products under development; and other factors described in our filings with the Securities and Exchange Commission. The FDA might not approve the treatment protocol that the Company intends to file and, if such treatment protocol is filed and approved, prGCD might be provided only to a limited number of patients and only for a limited time. Pharmaceutical and biotechnology companies have suffered significant setbacks in advanced clinical trials, even after promising results in earlier clinical trials or in preliminary findings for such clinical trials. The approval by the FDA of a treatment protocol with respect to prGCD will not have any effect on the FDA's approval of any NDA filed by the Company with respect to prGCD, if any. The statements are valid only as of the date hereof and we disclaim any obligation to update this information.

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