

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM 8-K**

**CURRENT REPORT**

**Pursuant to Section 13 or 15(d) of the  
Securities Exchange Act of 1934**

**March 30, 2006**

Date of Report (Date of earliest event reported)

**Discovery Laboratories, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction  
of incorporation)

**000-26422**  
(Commission File Number)

**94-3171943**  
(IRS Employer  
Identification Number)

**2600 Kelly Road, Suite 100  
Warrington, Pennsylvania 18976-3622**  
(Address of principal executive offices)

**(215) 488-9300**  
(Registrant's telephone number, including area code)

(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))

**Item 8.01. Other Events**

On March 30, 2006, Discovery Laboratories, Inc. (the “Company”) issued a press release announcing preliminary results from its recently completed Phase 2 clinical trial for the treatment of Acute Respiratory Distress Syndrome (ARDS) in adults using the Company’s precision-engineered surfactant delivered via bronchoscopic segmental lavage. The trial was structured in two parts. Part A focused on dose escalation and safety and enrolled 22 patients. Part B, which focused on safety and efficacy, included 113 patients, 11 of which were from Part A. The full text of the press release is set forth in Exhibit 99.1 to this Current Report on Form 8-K.

**Item 9.01. Financial Statements, Pro Forma Financial Statements and Exhibits**

(d) Exhibits:

99.1 Press Release dated March 30, 2006.

Cautionary Note Regarding Forward-looking Statements:

To the extent that statements in this Current Report on Form 8-K are not strictly historical, including statements as to business strategy, outlook, objectives, future milestones, plans, intentions, goals, future financial conditions, future collaboration agreements, the success of the Company’s product development or otherwise as to future events, such statements are forward-looking, and are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. The forward-looking statements contained in this Current Report are subject to certain risks and uncertainties that could cause actual results to differ materially from the statements made. Such risks and others are further described in the Company's filings with the Securities and Exchange Commission including the most recent reports on Forms 10-K, 10-Q and 8-K, and any amendments thereto.

## 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.

### **Discovery Laboratories, Inc.**

By:     /s/ Robert J. Capetola      
Name: Robert J. Capetola, Ph.D.  
Title: President and Chief Executive  
        Officer

Date: March 31, 2006