

Medidata Solutions, Inc.

Form 8-K

May 13, 2010

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): May 13, 2010

Medidata Solutions, Inc.

(Exact name of registrant as specified in its charter)

Delaware

001-34387

13-4066508

(State or other jurisdiction

(Commission File

(IRS Employer

of incorporation)

Number)

Identification No.)

79 Fifth Avenue, 8th Floor

New York, New York

10003

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code: **(212) 918-1800**

Not Applicable

(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))

Item 2.02. Results of Operations and Financial Condition.

On May 13, 2010, Medidata Solutions, Inc. issued a press release announcing its financial results for the quarter ended March 31, 2010. Medidata Solutions, Inc. also posted supplemental reconciliation and guidance information with respect to its first quarter results on the Investors section of its website at www.mdsol.com. A copy of the press release and the supplemental reconciliation and guidance information are furnished herewith as Exhibit 99.1 and Exhibit 99.2, respectively, and are incorporated herein by reference.

In accordance with General Instruction B.2 of Form 8-K, the information in this Current Report on Form 8-K, including the exhibits, shall not be deemed to be “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liabilities of that section, and shall not be incorporated by reference into any registration statement or other document filed under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

99.1 Press release issued by Medidata Solutions, Inc. on May 13, 2010, furnished herewith.

99.2 Supplemental reconciliation and guidance information, dated as of May 13, 2010, furnished herewith.

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.

MEDIDATA SOLUTIONS, INC.

Date: May 13, 2010

By: /S/ MICHAEL I. OTNER

Name: Michael I. Otner

Title: General Counsel and Secretary

EXHIBIT INDEX

Exhibit No. Description

99.1 Press release issued by Medidata Solutions, Inc. on May 13, 2010, furnished herewith.

99.2 Supplemental reconciliation and guidance information, dated as of May 13, 2010, furnished herewith.