

Medidata Solutions, Inc.  
Form 4  
February 25, 2014

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Douglas Cory

(Last) (First) (Middle)

C/O MEDIDATA SOLUTIONS,  
INC., 350 HUDSON STREET, 9TH  
FLOOR

(Street)

NEW YORK, NY 10014

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
Medidata Solutions, Inc. [MDSO]

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/21/2014

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
Chief Financial Officer

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
\_\_\_ Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  | Code                           | V   | Amount  | (A) or (D)   | Price                                      |
| Common Stock                    | 02/21/2014                           |  | M                              |   | 17,561  | A  | \$ 8.22                                    |
|                                 |                                      |  |                                |   |   |  | 184,200                                    |
| Common Stock                    | 02/21/2014                           |  | S                              |   | 17,561  | D  | \$ 64.4286                                 |
|                                 |                                      |  |                                |   |   |  | (1)  |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Stock Option (Right to buy)                | \$ 8.22  | 02/21/2014                           |  | M                              | 17,561  | (2) 10/01/2021   | Common Stock  | 17,561                        |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                         |       |
|--|---------------|-----------|-------------------------|-------|
|  | Director      | 10% Owner | Officer                 | Other |
| Douglas Cory<br>C/O MEDIDATA SOLUTIONS, INC.<br>350 HUDSON STREET, 9TH FLOOR<br>NEW YORK, NY 10014 |               |           | Chief Financial Officer |       |

## Signatures

/s/ Michael I. Otner,  
Attorney-in-Fact

02/25/2014

\_\_Signature of Reporting Person Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
  - \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Such transaction was executed in multiple trades at prices ranging from \$64.45 to \$. The price reported reflects the weighted average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.
- (2) The options vested as to 25% of the shares on October 1, 2012 and 1/36th of the remaining options will become exercisable each month thereafter for the next 36 months.

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