

Medidata Solutions, Inc.
 Form 3/A
 February 27, 2017

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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 * Â Pray Michael (Last) (First) (Middle) C/O MEDIDATA SOLUTIONS, INC., Â 350 HUDSON STREET, 9TH FLOOR (Street) NEW YORK, Â NY Â 10014 (City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year) 02/24/2017 | 3. Issuer Name and Ticker or Trading Symbol Medidata Solutions, Inc. [MDSO] | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) EVP, GM Global Sales | 5. If Amendment, Date Original Filed(Month/Day/Year) 02/24/2017 | 6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |
|--|--|--|--|--|---|

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|------------------------------------|--|---|--|
| Common Stock | 37,726 | D | Â |

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

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative | 5. Ownership Form of Derivative Security: | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|---|--|---|---|--|
|---|---|--|---|---|--|

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| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) | |
|------------------------------|------------------|-----------------|--------------|----------------------------|----------|---------------------------------------|---|
| Stock Options (right to buy) | Â (1) | 10/14/2026 | Common Stock | 28,802 | \$ 49.7 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Pray Michael C/O MEDIDATA SOLUTIONS, INC. 350 HUDSON STREET, 9TH FLOOR NEW YORK, NY 10014 | Â | Â | Â EVP, GM Global Sales | Â |

Signatures

/s/ Kathryn E. Schneider,
Attorney-in-Fact

02/27/2017

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 5(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) The options vested as to 25% of the shares on October 14, 2017 and 1/36th of the remaining options will become exercisable each month thereafter for the next 36 months.

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Remarks:

This amendment is being filed solely to attach the Power of Attorney signed by Mr. Pray.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.