Medidata Solutions, Inc.

Form 3

January 10, 2014

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

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

OMB Number:

3235-0104

Expires:

response...

January 31, 2005

0.5

Estimated average burden hours per

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 *

Mateo Alan

(Last)

(First)

(Middle)

2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol

Statement

(Month/Day/Year)

01/01/2014

4. Relationship of Reporting

Medidata Solutions, Inc. [MDSO]

Person(s) to Issuer

(Check all applicable)

5. If Amendment, Date Original

Filed(Month/Day/Year)

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

(Street)

Director _X__ Officer

10% Owner

Other 6. Individual or Joint/Group (give title below) (specify below) Filing(Check Applicable Line) EVP, Field Operations _X_ Form filed by One Reporting

Person

Form filed by More than One

Reporting Person

NEW YORK. NYÂ 10014

(City) (State) (Zip)

Table I - Non-Derivative Securities Beneficially Owned

Beneficially Owned (Instr. 4)

2. Amount of Securities 3.

4. Nature of Indirect Beneficial Ownership

Ownership (Instr. 5)

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Form: Direct (D) or Indirect (I)

(Instr. 5) D

SEC 1473 (7-02)

Common Stock

1. Title of Security

(Instr. 4)

86,913

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

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

1. Title of Derivative Security

Expiration Date

3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)

4. Conversion

5. Ownership Form of

6. Nature of Indirect Beneficial Ownership (Instr. 5)

Price of Derivative Security:

(Instr. 4)

2. Date Exercisable and (Month/Day/Year)

or Exercise Derivative

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| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) | |
|-----------------------------|---------------------|--------------------|-----------------|----------------------------------|----------|--|---|
| Stock Option (Right to Buy) | (1) | 05/18/2020 | Common Stock | 2,282 | \$ 7.68 | D | Â |
| Stock Option (Right to Buy) | (2) | 05/31/2021 | Common Stock | 7,652 | \$ 11.5 | D | Â |
| Stock Option (Right to Buy) | (3) | 05/16/2022 | Common Stock | 12,530 | \$ 13.99 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|---|---------------|-----------|--------------------------|-------|--|--|
| | Director | 10% Owner | Officer | Other | | |
| Mateo Alan C/O MEDIDATA SOLUTIONS, INC. 350 HUDSON STREET, FLOOR 9 NEW YORK Â NYÂ 10014 | Â | Â | EVP, Field Operations | Â | | |

Date

Signatures

/s/ Michael I. Otner, Attorney-in-Fact 01/10/2014

**Signature of Reporting Person

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) 1/48th of these options vest and become exercisable each month over four years, commencing on May 18, 2010, the date of grant. Of these options, options to purchase 1,902 shares remain unvested.
- (2) 1/48th of these options vest and become exercisable each month over four years, commencing on May 31, 2011, the date of grant. Of these options, options to purchase 6,846 shares remain unvested.
- (3) 1/48th of these options vest and become exercisable each month over four years, commencing on May 16, 2012, the date of grant. Of these options, options to purchase 12,112 shares remain unvested.

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Remarks:

Exhibit List - Exhibit 24-Limited Power of Attorney for Section 16(a)Â Reporting.

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.

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