Krasnow Lineene Norris Form 4 November 22, 2010

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

OMB

Check this box if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

3235-0287 Number: January 31,

subject to Section 16. Form 4 or Form 5

obligations

Expires: 2005 Estimated average

0.5

OMB APPROVAL

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

SECURITIES

burden hours per response...

may continue. See Instruction

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

| 1. Name and A Krasnow Lin | • | _ | 2. Issuer Name and Ticker or Trading Symbol Modidate Solutions Inc. [MDSO] | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|---------|----------|--|--|--|--|--|
| | | | Medidata Solutions, Inc. [MDSO] | (Check all applicable) | | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction | | | | |
| | | | (Month/Day/Year) | Director 10% Owner | | | |
| C/O MEDIDATA SOLUTIONS, INC., 79 FIFTH AVENUE, 8TH | | | 11/18/2010 | X Officer (give title Other (specify | | | |
| | | | | below) below) EVP-Product & Marketing | | | |
| FLOOR | | , | | EVP-Product & Marketing | | | |
| (Street) | | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |
| | | | Filed(Month/Day/Year) | Applicable Line) | | | |
| | | | | _X_ Form filed by One Reporting Person | | | |
| NEW YORK NIV 10002 | | | | Form filed by More than One Reporting | | | |

NEW YORK, NY 10003

Common

Stock

11/19/2010

| (City) | (State) | (Zip) Tab | le I - Non-l | Derivative | Secur | ities Acqui | red, Disposed of, | , or Beneficial | y Owned |
|--------------------------------------|---|---|-----------------|----------------------------|-----------------------|---------------------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | Code (Instr. 8) | omr Dispos (Instr. 3, 4 | ed of (4 and 5 (A) or | 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 Beneficial Ownership (Instr. 4) |
| Common Stock | 11/18/2010 | | Code V M | 7,000 | (D) | Price \$ 0.62 | 46,462 | D | |
| Common Stock | 11/18/2010 | | S | 7,000 | D | \$ 18.925 (1) | 39,462 | D | |
| Common Stock | 11/19/2010 | | M | 13,000 | A | \$ 0.62 | 52,462 | D | |

S

\$

(2)

19.128 39,462

D

13,000 D

Person

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

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

SEC 1474 (9-02)

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 orDerivative 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) | | 3 (|
|---|---|--------------------------------------|---|---|---|--|--------------------|---|-------------------------------------|-----|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Stock Option (right to buy) | \$ 0.62 | 11/18/2010 | | M | 7,000 | (3) | 03/31/2015 | Common Stock | 7,000 | |
| Stock Option (right to buy) | \$ 0.62 | 11/19/2010 | | M | 13,000 | (3) | 03/31/2015 | Common Stock | 13,000 | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Krasnow Lineene Norris

C/O MEDIDATA SOLUTIONS, INC. EVP-Product & 79 FIFTH AVENUE, 8TH FLOOR Marketing NEW YORK, NY 10003

Signatures

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

**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 \$18.12 to \$19.06. 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

Reporting Owners 2

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issuer full information regarding the number of shares and prices at which the transaction was effected.

- Such transaction was executed in multiple trades at prices ranging from \$18.71 to \$19.54. 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.
- (3) These options are fully vested and exercisable.

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.