

Krasnow Lineene Norris
 Form 4
 December 10, 2009

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 *
 Krasnow Lineene Norris

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

C/O MEDIDATA SOLUTIONS, INC., 79 FIFTH AVENUE, 8TH FLOOR

3. Date of Earliest Transaction (Month/Day/Year)
 12/09/2009

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 EVP - Product and Marketing

(Street)

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

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

NEW YORK, NY 10003

(City) (State) (Zip)

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 Beneficial Ownership (Instr. 4)
			Code	V Amount (A) or (D) Price			
Common Stock	12/09/2009		M	75,000 A \$ 0.62	88,021	D	
Common Stock	12/09/2009		S	75,000 (1) D 14.175 (2)	13,021	D	

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

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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)	\$ 0.62	12/09/2009		M	75,000	⁽³⁾ 08/15/2015	Common Stock	75,000

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Krasnow Lineene Norris
C/O MEDIDATA SOLUTIONS, INC.
79 FIFTH AVENUE, 8TH FLOOR
NEW YORK, NY 10003

EVP - Product and Marketing

Signatures

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

12/10/2009

__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) These shares of the issuer's common stock were sold by the reporting person in a registered underwritten secondary offering pursuant to an underwriting agreement entered into on December 8, 2009. The reporting person's sale of the issuer's common stock was matchable under Section 16(b) of the Securities Exchange Act of 1934, to the extent of 700 shares, with the reporting person's purchase pursuant to a directed share program established by the underwriters of the issuer's initial public offering of 700 shares of the issuer's common stock at a price of \$14.00 per share on June 24, 2009. The reporting person has agreed to pay to the issuer, upon settlement of the sale, \$122.50, representing the full amount of the profit realized in connection with the short-swing transaction, less transaction costs.
- (2) Represents public offering price of \$15.00 per common share less the underwriter's discount of \$0.825 per common share.
- (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.