

SOBILOFF PETER  
Form 4/A  
May 24, 2010

**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 \*  
SOBILOFF PETER

(Last) (First) (Middle)

680 FIFTH AVENUE - 8TH FLOOR

(Street)

NEW YORK, NY 10019

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/18/2010

4. If Amendment, Date Original Filed(Month/Day/Year)  
05/20/2010

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

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 Ownership (Instr. 4)
Restricted Common Stock	05/18/2010		A(1)	4,886	A \$ 0 (1) (1)	D (1) (2) (3)	

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

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SEC 1474  
(9-02)

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

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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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Following Reporting Transaction (Instr. 6)
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## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SOBILOFF PETER 680 FIFTH AVENUE - 8TH FLOOR NEW YORK, NY 10019		X		

## Signatures

/s/ Peter Sobiloff                      05/24/2010

\_\_Signature of                      Date  
Reporting Person

## 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).

On May 18, 2010, Peter Sobiloff was issued 4,886 shares of restricted stock ("Restricted Stock"). The shares of Restricted Stock vest over a two-year period, fifty percent (50%) on the first anniversary of grant and the remaining fifty percent (50%) on the second anniversary of the grant. Peter Sobiloff is required to ultimately surrender or credit to Insight Venture Partners IV, L.P., Insight Venture Partners (1) (Cayman) IV, L.P., Insight Venture Partners IV (Co-Investors), L.P. and Insight Venture Partners IV (Fund B), L.P. (collectively, the "Insight Partnerships") all compensation he receives from the Issuer, including all stock, stock options, restricted stock and other forms of stock-based awards, pro rata in accordance with such Insight Partnership's ownership of the Issuer's securities. Mr. Sobiloff therefore disclaims beneficial ownership of all such Restricted Stock, except to the extent of his pecuniary interest therein.

(2) The amount listed includes 8,457 shares of restricted stock which were granted to George McCulloch. Mr. McCulloch has granted all economic benefits relating to these shares of restricted stock to the Insight Partnerships, pro rata in accordance with those entities' ownership of the Issuer's common stock. Mr. Sobiloff disclaims beneficial ownership of these securities, except to the extent of his pecuniary interest therein.

(3) The amount listed reflects the beneficial ownership of the Issuer's securities owned by the Insight Partnerships, all of which may be deemed attributable to the Insight Venture Associates IV, L.L.C. (the "Insight GP") because the Insight GP is the sole general partner of each of the Insight Partnerships. The managing member of the Insight GP is Insight Holdings Group, L.L.C. ("Insight Holdings"). Insight Holdings is managed by its board of managers. Jeffery Horing, Peter Sobiloff and Deven Parekh, the members of the board of managers of Insight Holdings, share the voting and investment power with respect to the securities held by the Insight Partnerships. Each of Messrs. Horing, Sobiloff and Parekh disclaim beneficial ownership of such securities, except to the extent of his pecuniary interest therein.

(4)

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On the prior May 20, 2010 filing, the Amount of Securities Beneficially Owned Following Reported Transaction(s) was inadvertently reported as 197,040. As per this amendment, the correct Amount of Securities Beneficially Owned Following Reported Transaction(s) is 204,589.

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.