Sherif Tarek Form 4 February 07, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

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if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue. See Instruction

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

1(b).

(Last)

(City)

(Print or Type Responses)

1. Name and Address of Reporting Per	rson
Sherif Tarek	

(Middle)

(Zip)

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

(State)

(First)

(Street)

2. Issuer Name and Ticker or Trading Symbol

Medidata Solutions, Inc. [MDSO]

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

02/04/2011

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

Chairman & CEO

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

NEW YORK, NY 10003

					2000		ca, Disposed or,	01 2011011011111	, o
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)	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)	(Instr. 4)	
Common Stock	02/04/2011		S	2,300 (1)	D	\$ 24.5065 (2)	1,086,076	D	
Common Stock	02/07/2011		S	11,367 (1)	D	\$ 25.7323 (3)	1,074,709	D	

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

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number.

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration D	ate	Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr. :	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration		or Name la sur		
						Exercisable	Date		Number		
				C 1 W	(A) (D)				of		
				Code V	(A) (D)			,	Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Sherif Tarek C/O MEDIDATA SOLUTIONS, INC. 79 FIFTH AVENUE, 8TH FLOOR NEW YORK, NY 10003	X		Chairman & CEO				

Signatures

/s/ Michael I. Otner, Attorney-in-Fact 02/07/2011

**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) The sale reported in this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 11, 2010.
- Such transaction was executed in multiple trades at prices ranging from \$24.50 to \$24.55. The price reported reflects the weighted (2) 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.
- Such transaction was executed in multiple trades at prices ranging from \$25.53 to \$26.10. 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.

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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