de Vries Glen Michael Form 4 February 13, 2018

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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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).

(Print or Type Responses)

1. Name and Address of Reporting Person * de Vries Glen Michael

2. Issuer Name and Ticker or Trading Symbol

Medidata Solutions, Inc. [MDSO]

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

(Last)

(First)

(Middle)

(Zip)

3. Date of Earliest Transaction

(Month/Day/Year)

02/10/2018

_X__ Director 10% Owner

X_ Officer (give title below) President

Other (specify

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

(State)

(Street) 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 10014

(City)

		Table 1 Non Delivative Securities Required, Disposed oi, of Beneficiary Owned							
1.Title of Security	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if	3. Transactio	Fransaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5)			5. Amount of Securities	6. Ownership	7. Nature of Indirect
(Instr. 3)		any (Month/Day/Voor)	Code				Beneficially	Form: Direct	Beneficial
		(Month/Day/Year)	(Instr. 8) Code V	Amount	(A) or (D)	Price	Owned Following Reported Transaction(s) (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	11/20/2017		G	39,799	D	\$ 0 (1)	695,316	D	
Common Stock	02/10/2018		F	1,842 (2)	D	\$ 64.97	693,661 <u>(3)</u>	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)	4. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3,	.	ate	Amou Under Securi	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
			Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
<u>.</u>	Director	10% Owner	Officer	Other			
de Vries Glen Michael C/O MEDIDATA SOLUTIONS, INC. 350 HUDSON STREET, 9TH FLOOR NEW YORK, NY 10014	X		President				

Signatures

/s/ Michael I. Otner, 02/13/2018 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).
- Bona fide gift by the Reporting Person for no consideration.
- Shares withheld by Medidata to satisfy the tax withholding obligation in connection with the vesting of previously awarded restricted **(2)**
- Included are 187 shares which were purchased pursuant to the terms of the Medidata Solutions, Inc. Employee Stock Purchase Plan on December 31, 2017.

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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