Cox Christopher T Form 4 September 05, 2018

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL OMB

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Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue.

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

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Cox Christopher T Issuer Symbol MEDICINES CO /DE [MDCO] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner _X__ Officer (give title _ Other (specify **8 SYLVAN WAY** 08/31/2018 below) EVP & Chief Corp. Dev. Officer (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 Form filed by More than One Reporting

PARSIPPANY, NJ 07054

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative S	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securition(A) or Dis (Instr. 3, 4	spose	d of (D)	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	08/31/2018		A	375 <u>(1)</u>	A	\$ 28.28	60,308	D	
Common Stock							171,155	I	See footnote (2)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Person

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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	f 2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Titl	le and	8. Price of	9. Nu
Derivative	e Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate	Amou	ınt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	/Year)	Under	rlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Secur	ities	(Instr. 5)	Bene
	Derivative				Securities	S		(Instr.	. 3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A		
									Amount		
						Date Exercisable	Expiration Date				
									Number		
				C-1- V	(A) (D)				of		
				Code v	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Other Director 10% Owner Officer

Cox Christopher T 8 SYLVAN WAY PARSIPPANY, NJ 07054

EVP & Chief Corp. Dev. Officer

Signatures

/s/ Stephen M. Rodin, Attorney-in-Fact for Christopher

T. Cox 09/05/2018

> **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).
- Shares of common stock acquired pursuant to The Medicines Company Employee Stock Purchase Plan ("ESPP") for the ESPP purchase (1) period beginning March 1, 2018 and ending August 31, 2018. In accordance with the terms of the ESPP, these share were purchased based on 85% of the fair market value closing price of the issuer's common stock on March 1, 2018.
- The reporting person holds a power of attorney with respect to this account. Members of the reporting person's immediate family may be (2) considered to have a pecuniary interest in this account. The reporting person disclaims beneficial ownership of the shares held by this account except to the extent of his pecuniary interest therein.

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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