Schlesinger Sarah J. Form 4 February 26, 2018

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

3235-0287

January 31, Expires: 2005

OMB APPROVAL

Estimated average burden hours per response... 0.5

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

Check this box

SECURITIES

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 * Schlesinger Sarah J.

2. Issuer Name and Ticker or Trading Symbol

MEDICINES CO /DE [MDCO]

5. Relationship of Reporting Person(s) to

Issuer

(Last) (First) (Middle)

3. Date of Earliest Transaction

X_ Director 10% Owner

(Check all applicable)

8 SYLVAN WAY

1.Title of

Security

(Instr. 3)

(Month/Day/Year)

02/22/2018

Other (specify Officer (give title below)

(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

Person

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

PARSIPPANY, NJ 07054

(City) (State) (Zip)

2. Transaction Date 2A. Deemed 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code Disposed of (D) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

(9-02)

(A) or

Reported Transaction(s)

Following

(Instr. 3 and 4) Code V Amount (D) Price

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 3. Transaction Date 3A. Deemed 5. Number of 6. Date Exercisable and 7. Title and Amount 4 Derivative Conversion (Month/Day/Year) Execution Date, if **TransactionDerivative Expiration Date** Underlying Securities Security or Exercise Code Securities (Month/Day/Year) (Instr. 3 and 4) (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A)

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	Security				(D) (Instr. 3, 4, and 5)							
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha		
Call Option (right-to-buy)	\$ 29.83	02/22/2018	A		26,383		<u>(1)</u>	02/22/2028	Common Stock	26,3		

or Disposed of

Reporting Owners

Derivative

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
Schlesinger Sarah J. 8 SYLVAN WAY PARSIPPANY, NJ 07054	X							

Signatures

/s/ Stephen M. Rodin, Attorney-in-Fact for Sarah J. 02/26/2018 Schlesinger

> **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) This option vests in one installment on February 22, 2021 and is made part of and pursuant to Issuer's director compensation package.

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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