

Flynn James E
 Form 4
 September 13, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2015
 Estimated average burden hours per response... 0.5

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 *
 Flynn James E

2. Issuer Name and Ticker or Trading Symbol
 MEDICINES CO /DE [MDCO]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 780 THIRD AVENUE, 37TH FLOOR

3. Date of Earliest Transaction (Month/Day/Year)
 09/09/2010

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

Possible Members of 10% Group

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

NEW YORK, NY 10017

(City) (State) (Zip)

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 Indirect Beneficial Ownership (Instr. 4)			
			Code	V	Amount	(D)	Price			
Common Stock	09/09/2010		P		37,861	A	\$ 13.09	2,376,432	I ⁽¹⁾	Through Deerfield Partners, L.P. ⁽²⁾
Common Stock	09/09/2010		P		50,188	A	\$ 13.09	3,137,538	I ⁽¹⁾	Through Deerfield International Limited ⁽³⁾
Common Stock								40,000	D	

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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)

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 Beneficially Owned (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Flynn James E 780 THIRD AVENUE 37TH FLOOR NEW YORK, NY 10017		X		Possible Members of 10% Group
DEERFIELD CAPITAL LP 780 THIRD AVENUE 37TH FLOOR NEW YORK, NY 10017		X		Possible Members of 10% Group
DEERFIELD PARTNERS, LP 780 THIRD AVENUE 37TH FLOOR NEW YORK, NY 10017		X		Possible Members of 10% Group
DEERFIELD MANAGEMENT CO /NY 780 THIRD AVENUE, 37TH FLOOR NEW YORK, NY 10017		X		Possible Members of 10% Group
DEERFIELD INTERNATIONAL LTD C/O CITI FUND SERVICES (BVI) LTD BISON COURT, PO BOX 3460, ROAD TOWN TORTOLA, D8 --		X		Possible Members of 10% Group

Signatures

/s/ Darren
Levine

09/13/2010

__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 Form 4 is being filed by the undersigned as well as the entities listed on the Joint Filer Information Statement attached as an exhibit hereto (the "Reporting Persons").

Deerfield Capital, L.P. is the general partner of Deerfield Partners, L.P. (the "Domestic Fund"). James E. Flynn is the managing member of the general partner of Deerfield Capital, L.P. In accordance with Instruction 4(b)(iv) to Form 4, the entire amount of the Issuer's securities held by the Domestic Fund is reported herein. For purposes of Section 16 of the Securities Exchange Act of 1934, each

(2) Reporting Person disclaims beneficial ownership of any such securities, except to the extent of his/its indirect pecuniary interest therein, if any, and this report shall not be deemed an admission that such Reporting Person is the beneficial owner of such securities for purposes of Section 16 or otherwise.

Deerfield Management Company, L.P. is the investment manager of Deerfield International Limited (the "Offshore Fund"). James E. Flynn is the managing member of the general partner of Deerfield Management Company, L.P. In accordance with Instruction 4(b)(iv) to Form 4, the entire amount of the Issuer's securities held by the Offshore Fund is reported herein. For purposes of Section 16 of the

(3) Securities Exchange Act of 1934, each Reporting Person disclaims beneficial ownership of any such securities, except to the extent of his/its indirect pecuniary interest therein, if any, and this report shall not be deemed an admission that such Reporting Person is the beneficial owner of such securities for purposes of Section 16 or otherwise.

Remarks:

Darren Levine, Attorney-In-Fact which is incorporated by reference to Exhibit 24 of the Form 3 filed by the Reporting Persons

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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