

Flynn James E  
Form 4  
October 19, 2010

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
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

(Last) (First) (Middle)

780 THIRD AVENUE, 37TH FLOOR

(Street)

NEW YORK, NY 10017

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)  
10/15/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
\_\_\_ Officer (give title below) \_\_\_X\_\_\_ Other (specify below)

Possible Members of 10% Group

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

**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 Ownership (Instr. 4) |           |                  |  |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|-----------|------------------|--|
|                                 |                                      |  | Code                           | V   | Amount  | (A) or (D)   | Price                             |           |                  |  |
| Common Stock                    | 10/15/2010                           |  | X                              |   | 94,200  | A  | \$ 11                             | 2,470,632 | I <sup>(1)</sup> | Through Deerfield Partners, L.P. <sup>(2)</sup>        |
| Common Stock                    | 10/15/2010                           |  | X                              |   | 124,400   | A  | \$ 11                             | 3,261,938 | I <sup>(1)</sup> | Through Deerfield International Limited <sup>(3)</sup> |
| Common Stock                    | 10/15/2010                           |  | X                              |   | 139,900   | A  | \$ 12.5                           | 2,610,532 | I <sup>(1)</sup> | Through Deerfield Partners, L.P. <sup>(2)</sup>        |

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|              |            |   |         |   |         |           |                  |  |
|--------------|------------|---|---------|---|---------|-----------|------------------|--|
| Common Stock | 10/15/2010 | X | 173,600 | A | \$ 12.5 | 3,435,538 | I <sup>(1)</sup> | Through Deerfield International Limited <sup>(3)</sup> |
| Common Stock |            |   |         |   |         | 40,000    | D                |  |

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. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Call Option (right to buy)                 | \$ 11  | 10/15/2010                           |  | X                              | 942   | <sup>(4)</sup> 10/16/2010                                | Common Stock  | 94,200                        |
| Call Option (right to buy)                 | \$ 11  | 10/15/2010                           |  | X                              | 1,244   | <sup>(4)</sup> 10/16/2010                                | Common Stock  | 124,400                       |
| Call Option (right to buy)                 | \$ 12.5  | 10/15/2010                           |  | X                              | 1,399   | <sup>(4)</sup> 10/16/2010                                | Common Stock  | 139,900                       |
| Call Option (right to buy)                 | \$ 12.5  | 10/15/2010                           |  | X                              | 1,736   | <sup>(4)</sup> 10/16/2010                                | Common Stock  | 173,600                       |

## Reporting Owners

Reporting Owner Name / Address

Relationships



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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.