MEDICINES CO /DE Form SC 13G/A February 14, 2008

2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

PURSUANT TO RULE 13d-2(b)
(Amendment No. 1) *
The Medicines Company
(Name of Issuer)
Common Stock, par value \$0.001 per share
(Title of Class of Securities)
584688105
(CUSIP Number)
December 31, 2007
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed: _ Rule 13d-1(b) X Rule 13d-1(c) _ Rule 13d-1(d)
(Page 1 of 11 Pages)
* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page. The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).
CUSIP No. 584688105 13G Page 2 of 11 Pages
1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)
Deerfield Capital, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a) |_|

			(b)	X	
3.	SEC USE ONLY				
4.	 CITIZENS	SHIP OR PLACE OF ORGANIZATION			
	Delaware	9			
		5. SOLE VOTING POWER			
		0			
NUMBER OF SHARES BENEFICIALLY		6. SHARED VOTING POWER			
		971,909			
E	ED BY ACH	7. SOLE DISPOSITIVE POWER			
PE	ORTING RSON	0			
W.	ITH	8. SHARED DISPOSITIVE POWER			
		971,909			
9.	AGGREGAT	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	971,909				
10.	CHECK BO	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHAF	:====: :ES*	_	
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.87%				
12.	TYPE OF REPORTING PERSON*				
	PN				
CUSIP	SIP No. 584688105 13G Page 3 of 11			ages	
1.	1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
	Deerfield Partners, L.P.				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) 2			1_1	
	SEC USE ONLY				
		CUID OD DIACE OF ODCANIZATION			

	Delaware					
		5. SOLE VOTING	POWER			
		0				
		6. SHARED VOTI	NG POWER			
BENE		971,909				
OWNED BY EACH REPORTING PERSON		7. SOLE DISPOS	ITIVE POWER			
		0				
W	ITH	8. SHARED DISP	OSITIVE POWER			
		971,909				
9.	AGGREGAT			 TING PERSON		
	971 , 909					
 1 O		TE THE ACCREC	ATE AMOUNT IN ROW (9) EXCLU			
10.	CHECK DO	A II IIIL AGGINLO	ALL AMOUNT IN NOW (3) EXCEC	DES CENTATIV SHANES _		
11.	PERCENT	OF CLASS REPRES	ENTED BY AMOUNT IN ROW (9)			
1.87%						
12.	TYPE OF	REPORTING PERSO	N*			
	PN					
CUSIP	No. 5846	88105	13G	Page 4 of 11 Pages		
1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)					
	Deerfiel	d Management Cor	mpany, L.P.			
2.	CHECK TH	E APPROPRIATE BO	OX IF A MEMBER OF A GROUP*	(a) _ (b) X		
 3.	SEC USE					
4.	 CITIZENS	HIP OR PLACE OF	ORGANIZATION			
	New York					
		5. SOLE VOTING	POWER			
		0				
MITTM	BED OF	6 SHARED VOTTI	NC DOMED			

SHARES BENEFICIALLY OWNED BY EACH REPORTING		1,765,862				
		7. SOLE DISPOSITIVE POWER				
	RSON ITH	0				
		8. SHARED DISPOSITIVE POWER				
		1,765,862				
9.	AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EA	ACH REPORTING PERSON			
	1,765,862					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* _					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	3.41% 					
12.	TYPE OF	REPORTING PERSON*				
	PN 					
CUSIP	No. 5846	88105 13G	Page 5 of 11 1	Pages		
1.		REPORTING PERSONS DENTIFICATION NO. OF ABOVE PERSON	NS (ENTITIES ONLY)			
	Deerfiel	d International Limited				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) _ (b) X					
3.	SEC USE	ONLY				
4.	CITIZENS	HIP OR PLACE OF ORGANIZATION				
	British	Virgin Islands				
		5. SOLE VOTING POWER				
		0				
NUMBER OF		6. SHARED VOTING POWER				
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH						
		7. SOLE DISPOSITIVE POWER				
		0				
		8. SHARED DISPOSITIVE POWER				

1,765,862 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,765,862 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* |_| 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) ______ 12. TYPE OF REPORTING PERSON* CUSIP No. 584688105 13G Page 6 of 11 Pages ______ NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) James E. Flynn ______ CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) |_| (b) |X| SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION United States 5. SOLE VOTING POWER NUMBER OF 6. SHARED VOTING POWER SHARES BENEFICIALLY 2,737,771 OWNED BY ______ 7. SOLE DISPOSITIVE POWER REPORTING PERSON ______ 8. SHARED DISPOSITIVE POWER 2,737,771 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,737,771 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* |_|

11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
5.28%					
12.	. TYPE OF REPORTING PERSON*				
	IN				
	Page 7 of 11 Page				
	No. 584688105				
Item 1	(a). Name of Issuer:				
	The Medicines Company (the "Company")				
Item 1	(b). Address of Issuer's Principal Executive Offices:				
	8 Campus Drive, Parsippany, New Jersey 07054				
Item 2	(a). Name of Person Filing:				
	James E. Flynn, Deerfield Capital, L.P., Deerfield Partners, L.P., Deerfield Management Company, L.P., Deerfield International Limited				
Item 2	(b). Address of Principal Business Office, or if None, Residence:				
	James E. Flynn, Deerfield Capital, L.P., Deerfield Partners, L.P., Deerfield Management Company, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017, Deerfield International Limited, c/o Bisys Management, Bison Court, Columbus Centre, P.O. Box 3460, Road Town, Tortola, British Virgin Islands				
Item 2	(c). Citizenship:				
	Deerfield Capital, L.P. and Deerfield Partners, L.P. - Delaware limited partnerships, Deerfield Management Company, L.P. - New York limited partnership, Deerfield International Limited- British Virgin Islands corporation				
Item 2	(d). Title of Class of Securities:				
	Common Stock				
Item 2	(e). CUSIP Number:				
	584688105				
Item 3	. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:				

- (a) $\mid _ \mid$ Broker or dealer registered under Section 15 of the Exchange Act.
- (b) |_| Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) |_| Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) |_| Investment company registered under Section 8 of the Investment Company Act.
- (e) | | An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);

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- (f) |_| An employee benefit plan or endowment fund in accordance with Rule 13d-1 (b) (1) (ii) (F);
- (g) |_| A parent holding company or control person in accordance with Rule 13d-1 (b) (1) (ii) (G);
- (h) $\mid _ \mid$ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) |_| A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) $|_|$ Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned:

Deerfield Capital, L.P. - 971,909 shares Deerfield Partners, L.P. - 971,909 shares Deerfield Management Company, L.P. - 1,765,862 shares Deerfield International Limited - 1,765,862 shares James E. Flynn - 2,737,771 shares

(b) Percent of class:

Deerfield Capital, L.P. - 1.87% Deerfield Partners, L.P. - 1.87% Deerfield Management Company, L.P. - 3.41% Deerfield International Limited - 3.41% James E. Flynn - 5.28%

- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote:

All Reporting Persons 0

(ii) Shared power to vote or to direct the vote

Deerfield Capital, L.P. - 971,909 Deerfield Partners, L.P. - 971,909 Deerfield Management Company, L.P. - 1,765,862

Deerfield International Limited - 1,765,862 James E. Flynn -2,737,771

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(iii) Sole power to dispose or to direct the disposition of

All Reporting Persons - 0

(ii) Shared power to vote or to direct the vote

Deerfield Capital, L.P. - 971,909 Deerfield Partners, L.P., - 971,909 Deerfield Management Company, L.P. - 1,765,862 Deerfield International Limited - 1,765,862 James E. Flynn -2,737,771

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities check the following $|_|$.

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired

the Security Being Reported on by the Parent Holding Company or Control Person.

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

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Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect."

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DEERFIELD CAPITAL, L.P.

By: J.E. Flynn Capital LLC, General Partner

By: /s/ Darren Levine

Darren Levine, Authorized Signatory

DEERFIELD PARTNERS, L.P.

By: Deerfield Capital, L.P.

By: J.E. Flynn Capital LLC, General Partner

By: /s/ Darren Levine

Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC General Partner

By: /s/ Darren Levine

Darren Levine, Authorized Signatory

DEERFIELD INTERNATIONAL LIMITED

By: Deerfield Management Company

By: Flynn Management LLC,

General Partner

By: /s/ Darren Levine

Darren Levine, Authorized Signatory

JAMES E. FLYNN

/s/ Darren Levine

Darren Levine, Attorney-In-Fact

Date: February 14, 2008

Exhibit List

Exhibit A . Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. Power of Attorney. (Previously filed as Exhibit 24 to a Form 4 with regard to PAR Pharmaceutical Companies, Inc. filed with the Commission on February 1, 2007 by Deerfield Capital L.P.; Deerfield Partners, L.P.; Deerfield Management Company, L.P.; Deerfield International Limited; Deerfield Special Situations Fund, L.P.; Deerfield Special Situations Fund International Limited; and James E. Flynn.)

Exhibit A

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of The Medicines Company shall be filed on behalf of the undersigned.

DEERFIELD CAPITAL, L.P.

By: J.E. Flynn Capital LLC,

ву:	/s/ Dai	rren Lev	ine	
	Darren	Levine,	Authorized	Signatory

DEERFIELD PARTNERS, L.P.

General Partner

By: Deerfield Capital, L.P.

By: J.E. Flynn Capital LLC, General Partner

By: /s/ Darren Levine _____ Darren Levine, Authorized Signatory

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC General Partner

By: /s/ Darren Levine _____ Darren Levine, Authorized Signatory

DEERFIELD INTERNATIONAL LIMITED

By: Deerfield Management Company

By: Flynn Management LLC, General Partner

By: /s/ Darren Levine

Darren Levine, Authorized Signatory

JAMES E. FLYNN

/s/ Darren Levine Darren Levine, Attorney-In-Fact

Exhibit B

Due to the relationships between them, the reporting persons hereunder may be deemed to constitute a "group" with one another for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934.