

MEDICINES CO /DE
Form SC 13G
July 13, 2007

OMB APPROVAL
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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. _____) *

The Medicines Company
(Name of Issuer)

Common Stock, par value \$0.001 per share
(Title of Class of Securities)

584688105
(Cusip Number)

July 3, 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)
- Rule 13d-1(c)
- Rule 13d-1(d)

* 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.

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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 (Act) 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).

(Continued on following pages)

Page 1 of 28 Pages

Exhibit Index Found on Page 27

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Partners, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

(b) **

** The reporting persons making this filing hold an aggregate of 2,602,100 Shares, which is 5.0% of the class of securities. The reporting person on this cover page, however, is a beneficial owner only of the securities reported by it on this cover page.

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

California

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

434,500
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

434,500

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

434,500

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

0.8%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Institutional Partners, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

California

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES BENEFICIALLY OWNED BY **6**

335,000
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING PERSON WITH **8**

335,000

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

335,000

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

0.6%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Institutional Partners II, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

California

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

35,900
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

35,900

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

35,900

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

0.1%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Institutional Partners III, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

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2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

Delaware

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

25,900
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

25,900

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

25,900

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

0.1%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

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Tinicum Partners, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

New York

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

14,500
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

14,500

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

14,500

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

0.0%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Offshore Investors II, L.P.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

Cayman Islands

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

536,417
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

536,417

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

536,417

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

1.0%

TYPE OF REPORTING PERSON (See Instructions)

12

PN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Capital Management, L.L.C.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

Delaware

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

1,219,883
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

1,219,883

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

1,219,883

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

2.4%

TYPE OF REPORTING PERSON (See Instructions)

12

IA, OO

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Farallon Partners, L.L.C.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

Delaware

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

1,382,217
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

1,382,217

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

1,382,217

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

2.7%

TYPE OF REPORTING PERSON (See Instructions)

12

OO

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Chun R. Ding

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

William F. Duhamel

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Richard B. Fried

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Monica R. Landry

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

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1

Douglas M. MacMahon

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

William F. Mellin

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Stephen L. Millham

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

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NAMES OF REPORTING PERSONS

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1

Jason E. Moment

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

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NAMES OF REPORTING PERSONS

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1

Ashish H. Pant

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CITIZENSHIP OR PLACE OF ORGANIZATION

4

India

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Rajiv A. Patel

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

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1

Derek C. Schrier

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

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SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Thomas F. Steyer

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

(b) **

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CITIZENSHIP OR PLACE OF ORGANIZATION

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United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

13G

CUSIP No. 584688105

NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

1

Mark C. Wehrly

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a)

2

(b) **

** The reporting persons making this filing hold an aggregate of 2,602,100 Shares, which is 5.0% of the class of securities. The reporting person on this cover page, however, may be deemed a beneficial owner only of the securities reported by it on this cover page.

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

United States

SOLE VOTING POWER

NUMBER OF **5**

-0-
SHARED VOTING POWER

SHARES
BENEFICIALLY **6**

OWNED BY

2,602,100
SOLE DISPOSITIVE POWER

EACH **7**

-0-
SHARED DISPOSITIVE POWER

REPORTING
PERSON WITH **8**

2,602,100

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,602,100

10

CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

CERTAIN SHARES (See Instructions)

[]

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11

5.0%

TYPE OF REPORTING PERSON (See Instructions)

12

IN

Item 1. Issuer

(a) Name of Issuer:

The Medicines Company (the Company)

(b) Address of Issuer's Principal Executive Offices:

8 Campus Drive, Parsippany, New Jersey 07054

Item 2. Identity And Background

Title Of Class Of Securities And CUSIP Number (Item 2(d) and (e))

This statement relates to shares of Common Stock, par value \$0.001 per share (the Shares), the Company. The CUSIP number of the Shares is 584688105.

Name Of Persons Filing, Address Of Principal Business Office And Citizenship (Item 2(a), (b) and (c))

This statement is filed by the entities and persons listed below, all of whom together are referred to herein as the Reporting Persons.

The Farallon Funds

- (i) Farallon Capital Partners, L.P., a California limited partnership (FCP), with respect to the Shares held by it;
- (ii) Farallon Capital Institutional Partners, L.P., a California limited partnership (FCIP), with respect to the Shares held by it;
- (iii) Farallon Capital Institutional Partners II, L.P., a California limited partnership (FCIP II), with respect to the Shares held by it;
- (iv) Farallon Capital Institutional Partners III, L.P., a Delaware limited partnership (FCIP III), with respect to the Shares held by it;

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- (v) Tincum Partners, L.P., a New York limited partnership (Tincum), with respect to the Shares held by it; and
- (vi) Farallon Capital Offshore Investors II, L.P., a Cayman Islands exempted limited partnership (FCOI II), with respect to the Shares held by it.

FCP, FCIP, FCIP II, FCIP III, Tincum and FCOI II are together referred to herein as the Farallon Funds.

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The Management Company

- (vii) Farallon Capital Management, L.L.C., a Delaware limited liability company (the Management Company), with respect to the Shares held by a certain account managed by the Management Company (the Managed Account).

The Farallon General Partner

- (viii) Farallon Partners, L.L.C., a Delaware limited liability company which is the general partner of each of the Farallon Funds (the Farallon General Partner), with respect to the Shares held by each of the Farallon Funds.

The Farallon Managing Members

- (ix) The following persons who are managing members of both the Farallon General Partner and the Management Company, with respect to the Shares held by the Farallon Funds and the Managed Account: Chun R. Ding (Ding), William F. Duhamel (Duhamel), Richard B. Fried (Fried), Monica R. Landry (Landry), Douglas M. MacMahon (MacMahon), William F. Mellin (Mellin), Stephen L. Millham (Millham), Jason E. Moment (Moment), Ashish H. Pant (Pant), Rajiv A. Patel (Patel), Derek C. Schrier (Schrier), Thomas F. Steyer (Steyer) and Mark C. Wehrly (Wehrly).

Ding, Duhamel, Fried, Landry, MacMahon, Mellin, Millham, Moment, Pant, Patel, Schrier, Steyer and Wehrly are together referred to herein as the Farallon Individual Reporting Persons.

The citizenship of each of the Farallon Funds, the Management Company and the Farallon General Partner is set forth above. Each of the Farallon Individual Reporting Persons other than Pant is a citizen of the United States. Ashish H. Pant is a citizen of India. The address of the principal business office of each of the Reporting Persons is c/o Farallon Capital Management, L.L.C., One Maritime Plaza, Suite 2100, San Francisco, California 94111.

Item 3. If This Statement Is Filed Pursuant To Sections 240.13d-1(b) or 240.13d-2(b) or (c),
Check Whether The Person Filing Is An Entity Specified In (a) - (j):

Not Applicable.

If This Statement Is Filed Pursuant To Section 240.13d-1(c), Check This Box. X

Item 4. Ownership

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The information required by Items 4(a) - (c) and set forth in Rows 5 through 11 of the cover page for each Reporting Person hereto is incorporated herein by reference for each such Reporting Person.

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The Shares reported hereby for the Farallon Funds are owned directly by the Farallon Funds and those reported by the Management Company on behalf of the Managed Account are owned directly by the Managed Account. The Farallon General Partner, as general partner to the Farallon Funds, may be deemed to be the beneficial owner of all such Shares owned by the Farallon Funds. The Management Company, as investment adviser to the Managed Account, may be deemed to be the beneficial owner of all such Shares owned by the Managed Account. The Farallon Individual Reporting Persons, as managing members of both the Farallon General Partner and the Management Company with the power to exercise investment discretion, may each be deemed to be the beneficial owner of all such Shares owned by the Farallon Funds and the Managed Account. **Each of the Management Company, the Farallon General Partner and the Farallon Individual Reporting Persons hereby disclaims any beneficial ownership of any such Shares.**

Item 5. Ownership Of Five Percent Or Less Of A Class

Not Applicable.

Item 6. Ownership Of More Than Five Percent On Behalf Of Another Person

Not Applicable.

Item 7. Identification And Classification Of The Subsidiary Which Acquired The Security Being
Reported On By The Parent Holding Company

Not Applicable.

Item 8. Identification And Classification Of Members Of The Group

The Reporting Persons are filing this Schedule 13G pursuant to Section 240.13d-1(c). Consistent with Item 2 of the cover page for each Reporting Person above, the Reporting Persons neither disclaim nor affirm the existence of a group among them.

Item 9. Notice Of Dissolution Of Group

Not Applicable.

Item 10. Certification

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 that purpose or effect.

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SIGNATURES

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

Dated: July 12, 2007

/s/ Monica R. Landry

FARALLON PARTNERS, L.L.C.,

On its own behalf and

as the General Partner of

FARALLON CAPITAL PARTNERS, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS II, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS III, L.P.,

TINICUM PARTNERS, L.P. and

FARALLON CAPITAL OFFSHORE INVESTORS II, L.P.

By Monica R. Landry,

Managing Member

/s/ Monica R. Landry

FARALLON CAPITAL MANAGEMENT, L.L.C.

By Monica R. Landry,

Managing Member

/s/ Monica R. Landry

Monica R. Landry, individually and as attorney-in-fact for

each of Chun R. Ding, William F. Duhamel, Richard B. Fried, Douglas M. MacMahon, William F. Mellin, Stephen L. Millham, Jason E. Moment, Ashish H. Pant, Rajiv A. Patel, Derek C. Schrier, Thomas F. Steyer and Mark C. Wehrly

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The Powers of Attorney executed by Chun R. Ding, William F. Duhamel, Richard B. Fried, Monica R. Landry, Douglas M. MacMahon, William F. Mellin, Stephen L. Millham, Jason E. Moment, Ashish H. Pant, Rajiv A. Patel, Derek C. Schrier, Thomas F. Steyer, and Mark C. Wehrly authorizing Landry to sign and file this Schedule 13G on his or her behalf, which was filed with the Schedule 13D filed with the Securities and Exchange Commission on July 2, 2007 by such Reporting Persons with respect to the Common Stock of Armor Holdings, Inc., is hereby incorporated by reference.

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EXHIBIT INDEX

EXHIBIT 1

Joint Acquisition Statement Pursuant to Section 240.13d-1(k)

Page 27 of 28 Pages

EXHIBIT 1

to

SCHEDULE 13G

JOINT ACQUISITION STATEMENT

PURSUANT TO SECTION 240.13d-1(k)

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint acquisition statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him, her or it contained therein, but shall not be responsible for the completeness and accuracy of the information concerning the other entities or persons, except to the extent that he, she or it knows or has reason to believe that such information is inaccurate.

Dated: July 12, 2007

/s/ Monica R. Landry

FARALLON PARTNERS, L.L.C.,

On its own behalf and

as the General Partner of

FARALLON CAPITAL PARTNERS, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS II, L.P.,

FARALLON CAPITAL INSTITUTIONAL PARTNERS III, L.P.,

TINICUM PARTNERS, L.P. and
Farallon Capital Offshore Investors II, L.P.

By Monica R. Landry,

Managing Member

/s/ Monica R. Landry

FARALLON CAPITAL MANAGEMENT, L.L.C.

By Monica R. Landry,

Managing Member

/s/ Monica R. Landry

Monica R. Landry, individually and as attorney-in-fact for

each of Chun R. Ding, William F. Duhamel, Richard B. Fried, Douglas M. MacMahon, William F. Mellin, Stephen L. Millham, Jason E. Moment, Ashish H. Pant, Rajiv A. Patel, Derek C. Schrier, Thomas F. Steyer and Mark C. Wehrly

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