

MEDICINES CO /DE  
Form SC 13G  
February 26, 2007

**SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**SCHEDULE 13G**

Under the Securities Exchange Act of 1934

The Medicines Company  
(Name of Issuer)

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

584688105  
(CUSIP Number)

February 14, 2007  
(Date of Event Which Requires Filing of this Statement)

Check the following box to designate the rule pursuant to which the 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.

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).

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CUSIP No. 584688105

1. **Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)**  
D. E. Shaw Meniscus Portfolios, L.L.C.  
51-0481096

2. **Check the Appropriate Box if a Member of a Group (See Instructions)**  
(a)   
(b)

3. **SEC Use Only**

4. **Citizenship or Place of Organization**  
Delaware

<b>Number of Shares Beneficially Owned by Each Reporting Person With</b>	<b>5.</b>	<b>Sole Voting Power</b>
		-0-
	<b>6.</b>	<b>Shared Voting Power</b>
		3,134,569
	<b>7.</b>	<b>Sole Dispositive Power</b>
		-0-
	<b>8.</b>	<b>Shared Dispositive Power</b>
		3,134,569

9. **Aggregate Amount Beneficially Owned by Each Reporting Person**  
3,134,569

10. **Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

11. **Percent of Class Represented by Amount in Row (9)**  
5.5%

12. **Type of Reporting Person (See Instructions)**  
OO

**CUSIP No. 584688105**

**1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw & Co., L.L.C.  
 13-3799946

**2. Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)   
 (b)

**3. SEC Use Only**

**4. Citizenship or Place of Organization**  
 Delaware

<b>Number of Shares Beneficially Owned by Each Reporting Person With</b>	<b>5.</b>	<b>Sole Voting Power</b>
		-0-
	<b>6.</b>	<b>Shared Voting Power</b>
		3,134,688
	<b>7.</b>	<b>Sole Dispositive Power</b>
		-0-
	<b>8.</b>	<b>Shared Dispositive Power</b>
		3,134,688

**9. Aggregate Amount Beneficially Owned by Each Reporting Person**  
 3,134,688

**10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

**11. Percent of Class Represented by Amount in Row (9)**  
 5.5%

**12. Type of Reporting Person (See Instructions)**  
 OO

**CUSIP No. 584688105**

**1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)**  
 D. E. Shaw & Co., L.P.  
 13-3695715

**2. Check the Appropriate Box if a Member of a Group (See Instructions)**  
 (a)    
 (b)

**3. SEC Use Only**

**4. Citizenship or Place of Organization**  
 Delaware

<b>Number of Shares Beneficially Owned by Each Reporting Person With</b>	<b>5.</b>	<b>Sole Voting Power</b>
		-0-
	<b>6.</b>	<b>Shared Voting Power</b>
		3,287,665
	<b>7.</b>	<b>Sole Dispositive Power</b>
		-0-
	<b>8.</b>	<b>Shared Dispositive Power</b>
		3,287,665

**9. Aggregate Amount Beneficially Owned by Each Reporting Person**  
 3,287,665

**10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

**11. Percent of Class Represented by Amount in Row (9)**  
 5.7%

**12. Type of Reporting Person (See Instructions)**  
 IA, PN

CUSIP No. 584688105

1. **Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)**  
David E. Shaw

2. **Check the Appropriate Box if a Member of a Group (See Instructions)**  
(a)    
(b)

3. **SEC Use Only**

4. **Citizenship or Place of Organization**  
United States

<b>Number of Shares Beneficially Owned by Each Reporting Person With</b>	<b>5.</b>	<b>Sole Voting Power</b>
		-0-
	<b>6.</b>	<b>Shared Voting Power</b>
		3,287,665
	<b>7.</b>	<b>Sole Dispositive Power</b>
		-0-
	<b>8.</b>	<b>Shared Dispositive Power</b>
		3,287,665

9. **Aggregate Amount Beneficially Owned by Each Reporting Person**  
3,287,665

10. **Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)**

11. **Percent of Class Represented by Amount in Row (9)**  
5.7%

12. **Type of Reporting Person (See Instructions)**  
IN

**Item 1.**

**(a) Name of Issuer**

The Medicines Company

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

8 Campus Drive  
Parsippany, NJ 07054

**Item 2.**

**(a) Name of Person Filing**

D. E. Shaw Meniscus Portfolios, L.L.C.  
D. E. Shaw & Co., L.L.C.  
D. E. Shaw & Co., L.P.  
David E. Shaw

**(b) Address of Principal Business Office or, if none, Residence**

The business address for each reporting person is:  
120 W. 45<sup>th</sup> Street, Tower 45, 39<sup>th</sup> Floor  
New York, NY 10036

**(c) Citizenship**

D. E. Shaw Meniscus Portfolios, L.L.C. is a limited liability company organized under the laws of the state of Delaware.  
D. E. Shaw & Co., L.L.C. is a limited liability company organized under the laws of the state of Delaware.  
D. E. Shaw & Co., L.P. is a limited partnership organized under the laws of the state of Delaware.  
David E. Shaw is a citizen of the United States of America.

**(d) Title of Class of Securities**

Common Stock, \$0.01 par value

**(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:**

Not applicable

**Item 4. Ownership**

As of February 20, 2007:

**(a) Amount beneficially owned:**

D. E. Shaw Meniscus Portfolios, L.L.C. 3,134,569 shares

D. E. Shaw & Co., L.L.C.: 3,134,688 shares

This is composed of (i) 3,134,569 shares in the name of D. E. Shaw Meniscus Portfolios, L.L.C. and (ii) 119 shares in the name of

D. E. Shaw Synoptic Portfolios 2, L.L.C.

D. E. Shaw & Co., L.P.:

3,287,665 shares

This is composed of (i) 3,134,569 shares in the name of D. E. Shaw Meniscus Portfolios, L.L.C. (ii) 119 shares in the name of D. E. Shaw Synoptic Portfolios 2, L.L.C., (iii) 103,477 shares in the name of D. E. Shaw Valence Portfolios, L.L.C., and (iv) 49,500 shares that D. E. Shaw Valence, L.L.C. has the right to acquire through the exercise of listed call options.

David E. Shaw:

3,287,665 shares

This is composed of (i) 3,134,569 shares in the name of D. E. Shaw Meniscus Portfolios, L.L.C., (ii) 119 shares in the name of D. E. Shaw Synoptic Portfolios 2, L.L.C., (iii) 103,477 shares in the name of D. E. Shaw Valence Portfolios, L.L.C., and (iv) 49,500 shares that D. E. Shaw Valence, L.L.C. has the right to acquire through the exercise of listed call options.

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(b) Percent of class:

D. E. Shaw Meniscus Portfolios, L.L.C.:	5.5%
D. E. Shaw & Co., L.L.C.:	5.5%
D. E. Shaw & Co., L.P.:	5.7%
David E. Shaw:	5.7%

(c) Number of shares to which the person has:

(i) Sole power to vote or to direct the vote:

D. E. Shaw Meniscus Portfolios, L.L.C.:	-0- shares
D. E. Shaw & Co., L.L.C.:	-0- shares
D. E. Shaw & Co., L.P.:	-0- shares
David E. Shaw:	-0- shares

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

D. E. Shaw Meniscus Portfolios, L.L.C.:	3,134,569 shares
D. E. Shaw & Co., L.L.C.:	3,134,688 shares
D. E. Shaw & Co., L.P.:	3,287,665 shares
David E. Shaw:	3,287,665 shares

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

D. E. Shaw Meniscus Portfolios, L.L.C.:	-0- shares
D. E. Shaw & Co., L.L.C.:	-0- shares
D. E. Shaw & Co., L.P.:	-0- shares
David E. Shaw:	-0- shares

(iv) Shared power to dispose or to direct the disposition of:

D. E. Shaw Meniscus Portfolios, L.L.C.:	3,134,569 shares
D. E. Shaw & Co., L.L.C.:	3,134,688 shares
D. E. Shaw & Co., L.P.:	3,287,665 shares
David E. Shaw:	3,287,665 shares

David E. Shaw does not own any shares directly. By virtue of David E. Shaw's position as President and sole shareholder of D. E. Shaw & Co., Inc., which is the general partner of D. E. Shaw & Co., L.P., which in turn is the investment adviser of D. E. Shaw Meniscus Portfolios, L.L.C. and D. E. Shaw Synoptic Portfolios 2, L.L.C., the managing member and investment adviser of D. E. Shaw Valence Portfolios, L.L.C., and the managing member of D. E. Shaw Valence, L.L.C., and by virtue of David E. Shaw's position as President and sole shareholder of D. E. Shaw & Co. II, Inc., which is the managing member of D. E. Shaw & Co., L.L.C., which in turn is the managing member of D. E. Shaw Meniscus Portfolios, L.L.C. and D. E. Shaw Synoptic Portfolios 2, L.L.C., David E. Shaw may be deemed to have the shared power to vote or direct the vote of, and the shared power to dispose or direct the disposition of, the 3,287,665 shares as described above constituting 5.7% of the outstanding shares and, therefore, David E. Shaw may be deemed to be the beneficial owner of such shares. David E. Shaw disclaims beneficial ownership of such 3,287,665 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 or Control Person.**

Not Applicable

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

Not Applicable

**Item 9. Notice of Dissolution of Group**

Not Applicable

**Item 10. Certification**

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By signing below, each of D. E. Shaw Meniscus Portfolios, L.L.C., D. E. Shaw & Co., L.L.C., D. E. Shaw & Co., L.P., and David E. Shaw certify that, to the best of such reporting person's 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 purposes or effect.

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**SIGNATURE**

After reasonable inquiry and to the best of their knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct. Powers of Attorney, dated February 24, 2004, granted by David E. Shaw in favor of Anne Dinning, are attached hereto.

Dated: February 26, 2007

D. E. Shaw Meniscus Portfolios, L.L.C.

By: D. E. Shaw & Co., L.L.C., as managing member

By: /s/ Anne Dinning

Anne Dinning  
Managing Director

D. E. Shaw & Co., L.L.C.

By: /s/ Anne Dinning

Anne Dinning  
Managing Director

D. E. Shaw & Co., L.P.

By: /s/ Anne Dinning

Anne Dinning  
Managing Director

David E. Shaw

By: /s/ Anne Dinning

Anne Dinning  
Attorney-in-Fact for David E. Shaw

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**Exhibit 1**

POWER OF ATTORNEY  
FOR CERTAIN FILINGS  
UNDER THE SECURITIES EXCHANGE ACT OF 1934

I, David E. Shaw, hereby make, constitute and appoint each of:

Anne Dinning,

Julius Gaudio,

Lou Salkind,

Stuart Steckler, and

Eric Wepsic,

acting individually, as my agent and attorney-in-fact, with full power of substitution, for the purpose of, from time to time, executing in my name and/or my capacity as President of D. E. Shaw & Co., Inc. (acting for itself or as the general partner of D. E. Shaw & Co., L.P. and general partner or managing member of other entities, any which in turn may be acting for itself or other entities) all documents, certificates, instruments, statement, other filings, and amendments to the forgoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Forms 3, 4, 5, 13D, 13F, and 13G required to be filed with the Securities and Exchange Commission; and delivering, furnishing or filing any such documents with the appropriate governmental or regulatory authority. Any such determination shall be conclusively evidenced by such person's execution, delivery, furnishing, and/or filing of the applicable document.

This power of attorney shall be valid from the date hereof and replaces the power granted on February 5, 2001, which is hereby cancelled.

IN WITNESS HEREOF, I have executed this instrument as of the date set forth below.

Date: February 24, 2004

DAVID E. SHAW, as President of  
D. E. Shaw & Co., Inc.  
/s/ David E. Shaw  
New York, New York

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**Exhibit 2**

POWER OF ATTORNEY  
FOR CERTAIN FILINGS  
UNDER THE SECURITIES EXCHANGE ACT OF 1934

I, David E. Shaw, hereby make, constitute and appoint each of:

Anne Dinning,

Julius Gaudio,

Lou Salkind,

Stuart Steckler, and

Eric Wepsic,

acting individually, as my agent and attorney-in-fact, with full power of substitution, for the purpose of, from time to time, executing in my name and/or my capacity as President of D. E. Shaw & Co. II, Inc. (acting for itself and as the managing member of D. E. Shaw & Co., L.L.C., which in turn may be acting for itself or as the managing member of other companies) all documents, certificates, instruments, statement, other filings and amendments to the forgoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Forms 3, 4, 5, 13D, 13F and 13G required to be filed with the Securities and Exchange Commission; and delivering, furnishing or filing any such documents with the appropriate governmental or regulatory authority. Any such determination shall be conclusively evidenced by such person's execution and delivery, furnishing or filing of the applicable document.

This power of attorney shall be valid from the date hereof and replaces the power granted on February 5, 2001, which is hereby cancelled.

IN WITNESS HEREOF, I have executed this instrument as of the date set forth below.

Date: February 24, 2004

DAVID E. SHAW, as President of  
D. E. Shaw & Co. II, Inc.  
/s/David E. Shaw  
New York, New York

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**Exhibit 3**

**JOINT FILING AGREEMENT**

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, each of the undersigned Reporting Persons hereby agrees to the joint filing, along with all other such Reporting Persons, on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock, \$0.001 par value, of The Medicines Company, and that this Agreement be included as an Exhibit to such joint filing. This Agreement may be executed in any number of counterparts, all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, each of the undersigned hereby executes this Agreement as of this 26th day of February, 2007.

D. E. Shaw Meniscus Portfolios, L.L.C.

By: D. E. Shaw & Co., L.L.C., as managing member

By: /s/ Anne Dinning

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Anne Dinning  
Managing Director

D. E. Shaw & Co., L.L.C.

By: /s/ Anne Dinning

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Anne Dinning  
Managing Director

D. E. Shaw & Co., L.P.

By: /s/ Anne Dinning

\_\_\_\_\_  
Anne Dinning  
Managing Director

David E. Shaw

By: /s/ Anne Dinning

\_\_\_\_\_  
Anne Dinning

