MEDICINES CO /DE Form SC 13G/A March 22, 2005

OMB APPROVAL

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### United States SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

#### **SCHEDULE 13G**

**Under the Securities Exchange Act of 1934** 

(Amendment No. 5)\*

The Medicines Company		
(Name of Issuer)		
Common Stock		
(Title of Class of Securities)		
584688105		
(CUSIP Number)		
February 24, 2005		
(Date of Event Which Requires Filing This Statement)		
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:		

\*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.

[ ] [X]

[ ]

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).

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

CUSIP N	No	584688105	_
1.	Name(s)	of Reporting Persons:	BB Biotech
		ntification Nos. of above entities only):	AG N/A
2.	Check the	Appropriate Box if a Member o	f a Group (See Instructions):
	(a) <b>[X</b> ]		
	(b) [ ]		
3.	SEC Use	Only:	
4.	Citizenshi	ip or Place of Organization:	Switzerland
Number Shares Beneficia	5. ally	Sole Voting Power:	0
Owned b Each Reportin Person w	6. g	Shared Voting Power:	4,584,152
i erson w	7.	Sole Dispositive Power:	0
	8.	Shared Dispositive Power:	4,584,152
9.		e Amount Beneficially Owned Reporting Person:	4,584,152
10.	Check if t Instruction	he Aggregate Amount in Row (9 ns):	Excludes Certain Shares (See
11.	Percent of in Row (9	f Class Represented by Amount ):	9.4%
12.			нс.со

Type of Reporting Person (See Instructions):

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CUSIP	No	584688105			
1.	Name(s)	of Rep	porting Persons:	Biote	ch Target N.V.
I.R.S. Identification Nos. of above persons (entities only):			ation Nos. of above persons	_	N/A
2.	Check the	e App	ropriate Box if a Member of a G	roup (See Instructions):	
	(a)	[ <b>X</b> ]			
	(b)	[]			
3.	SEC Use	Only:	·		
4.	Citizensh	ip or l	Place of Organization:	Nethe	rlands Antilles
Numbe Shares Benefi	cially	5.	Sole Voting Power:		0
	l by Each ing Person	6.	Shared Voting Power:		4,584,152
		7.	Sole Dispositive Power:		0
		8.	Shared Dispositive Power:		4,584,152
9.			ount Beneficially Owned ting Person:	-	4,584,152
10.	Check if Instruction		ggregate Amount in Row (9) Exc	cludes Certain Shares (See	[ ]
11.	Percent o Row (9):	f Clas	s Represented by Amount in		9.4%
12.	Type of F	Report	ing Person (See Instructions):		СО
				Page 3 of 5	

**Note**: This amendment is being filed to remove Biotech Growth as a joint filer and to update the beneficial ownership of the group following the cashless exercise of the warrants by Biotech Growth N.V. and the issuance of 447,733 shares of Common Stock in the name of Biotech Target, N.V.

Item 2

(iv)

2(a)	2(a) Names of Person Filing: BB Biotech AG (BB Biotech), on behalf of its wholly-owned subsidiary, Biotech Target N.V.  (Biotech Target).				
2(b)	2(b) Address of Principal Business Office or, if none, Residence:				
	BB Biotech AG: Vordergasse 3, CH-8200 Schaffhausen, Switzerland				
	Biotech Ta	arget N.V.:  De Ruyterkade 62, Willemstad, Curacao Netherlands Antilles			
2(c)	Citizenshij	o: Switzerland			
2(d)	Title of Cl	ass of Securities Common Stock, \$0.0001 par value			
	2(e) CUSIP Number <u>584688105</u> Item 4. Ownership				
Prov	ide the follo	owing information regarding the aggregate number and percentage of the class of securities of	the issuer identified in Item 1.		
(a)	Amoun	t beneficially owned: 4,584,152			
(b)	Percent	of class: 9.4%			
(c)	Numbe	of shares as to which the person has:			
	(i)	Sole power to vote or to direct the vote	0		
	(ii)	Shared power to vote or to direct the vote	4,584,152		
	(iii)	Sole power to dispose or to direct the disposition of	0		

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Shared power to dispose or to direct the disposition of

This statement is filed jointly by BB Biotech and Biotech Target. Biotech Target is a wholly-owned subsidiary of BB Biotech.

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4,584,152

### 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.

### **SIGNATURES**

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

#### BB BIOTECH AG

	/s/ Pascal Schmucki		/s/ Adrian Bruengger
By: Pascal Schmucki Its: Authorized Signatory Date: March 15, 2005		By: Its: Date:	Adrian Bruengger Authorized Signatory March 15, 2005
BIOTI	ECH TARGET N.V.		
	/s/ Pascal Schmucki		/s/ Adrian Bruengger
By: Its: Date:	Pascal Schmucki Authorized Signatory March 15, 2005	By: Its: Date:	Adrian Bruengger Authorized Signatory March 15, 2005

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