BIOMARIN PHARMACEUTICAL INC

Form 4

August 31, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

(Last)

1. Name and Address of Reporting Person *
Cooper Jeffrey H

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

BIOMARIN PHARMACEUTICAL

(Check all applicable)

INC [BMRN] (First) (Middle) 3. Date of Earliest Transaction

> (Month/Day/Year) 08/29/2006

10% Owner Director _X__ Officer (give title Other (specify below)

VP, Chief Financial Officer

C/O BIOMARIN PHARMACEUTICAL INC., 105 DIGITAL DRIVE

> (Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

NOVATO, CA 94949

(City)	(State)	Zip) Table	e I - Non-D	erivative S	ecurit	ies Acq	uired, Disposed of	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securities Acquired ion(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Form: Direct (D) or Owned Indirect (I) Following (Instr. 4) Reported		7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	08/29/2006(1)	08/29/2006	M	20,000	A	\$ 8.1	20,000	D	
Common Stock	08/29/2006(1)	08/29/2006	M	6,000	A	\$ 6.13	26,000	D	
Common Stock	08/29/2006(1)	08/29/2006	S	20,000	D	\$ 16	6,000	D	
Common Stock	08/29/2006(1)	08/29/2006	S	6,000	D	\$ 16	0	D	

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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 orDerivative Securities Acquired (A) or Disposed of (D)	Derivative Date Securities (Month/Day/Year) Acquired (A) or Disposed of		7. Title and A Underlying S (Instr. 3 and	Securit
	·				(Instr. 3, 4, and 5)	Date Exercisable	Expiration Date	Title	Amo or Num
Stock Option (right to buy)	\$ 8.1	08/29/2006		Code V M	(A) (D) 20,000	04/06/2004(2)	10/05/2013	Common Stock	of Sh 20,0
Stock Option (right to buy)	\$ 6.13	08/29/2006		M	6,000	07/07/2005(2)(3)	01/06/2015	Common Stock	6,0

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Cooper Jeffrey H

C/O BIOMARIN PHARMACEUTICAL INC.

105 DIGITAL DRIVE NOVATO, CA 94949 VP, Chief Financial Officer

Signatures

/s/ G. Eric Davis, Attorney-in-Fact 08/31/2006

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

(1) Transactions made pursuant to a 10b5-1 Trading Plan.

Reporting Owners 2

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- (2) Options vested 6/48ths on April 6, 2004 and 1/48th per month thereafter.
- (3) Options vested 6/48ths on July 7, 2005 and 1/48th per month thereafter.

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.