

BIOMARIN PHARMACEUTICAL INC
 Form 4
 August 31, 2006

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading Symbol
 BIOMARIN PHARMACEUTICAL INC [BMRN]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 08/29/2006

____ Director _____ 10% Owner
 Officer (give title below) _____ 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)
 Form filed by One Reporting Person
 ____ Form filed by More than One Reporting Person

NOVATO, CA 94949
 (City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	08/29/2006 ⁽¹⁾	08/29/2006	M		20,000	A	\$ 8.1
Common Stock	08/29/2006 ⁽¹⁾	08/29/2006	M		6,000	A	\$ 6.13
Common Stock	08/29/2006 ⁽¹⁾	08/29/2006	S		20,000	D	\$ 16
Common Stock	08/29/2006 ⁽¹⁾	08/29/2006	S		6,000	D	\$ 16

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(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 Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Security (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Option (right to buy)	\$ 8.1	08/29/2006		M	20,000	04/06/2004 ⁽²⁾ 10/05/2013	Common Stock	20,000
Stock Option (right to buy)	\$ 6.13	08/29/2006		M	6,000	07/07/2005 ⁽²⁾⁽³⁾ 01/06/2015	Common Stock	6,000

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.

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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.

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