BIOMARIN PHARMACEUTICAL INC Form SC 13G/A February 16, 2010

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

#### SCHEDULE 13G (Rule 13d-102)

#### Information Statement Pursuant to Rules 13d-1 and 13d-2 Under the Securities Exchange Act of 1934 (Amendment No. 3)\*

BioMarin Pharmaceutical Inc.

(Name of Issuer)

Common Stock, \$0.001 par value

(Title of Class of Securities)

09061G101

(CUSIP Number)

December 31, 2009

Date of Event Which Requires Filing of the Statement

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

[ ] Rule 13d-1(b) [X] 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 disclosures provided in a prior cover page.

The information required on 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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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Advisors LLC

- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

   (a) "
   (b) "
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware

NUMBER OF SHARES	5.	SOLE VOTING POWER 0
BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH		10,128,963 shares
REPORTING PERSON		
WITH	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER

- 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

See Row 6 above.

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.3%1

12. TYPE OF REPORTING PERSON IA;200; HC

- 1 The percentages reported in this Schedule 13G/A are based upon 108,784,730 shares of Common Stock outstanding (composed of (i) 100,729,518 shares of Common Stock outstanding as of October 23, 2009 (according to the Form 10-Q filed by the issuer on October 29, 2009), plus (ii) 4,174,961 shares of Common Stock issuable upon the conversion of the 2.5% Senior Subordinated Convertible Notes due 2013 held by Citadel Convertible Opportunities Ltd. and Citadel Equity Fund Ltd., plus (iii) 3,880,251 shares of Common Stock issuable upon the conversion of the 1.875% Senior Subordinated Convertible Notes due 2017 held by Citadel Convertible Opportunities Ltd. and Citadel Equity Fund Ltd.).
- 2 Citadel Advisors LLC became a registered investment adviser effective as of January 8, 2010.

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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Holdings II LP

- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

   (a) "
   (b) "
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware

NUMBER OF SHARES	5.	SOLE VOTING POWER 0
BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH		10,128,963 shares
REPORTING PERSON		
WITH	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER

- 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

See Row 6 above.

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.3%

12. TYPE OF REPORTING PERSON PN; HC

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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Equity Fund Ltd.

- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

   (a) "
   (b) "
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION Cayman Islands

NUMBER OF SHARES	5.	SOLE VOTING POWER 0
BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH REPORTING		7,836,314 shares
PERSON	_	
WITH	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER

- 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

See Row 6 above.

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

7.2%

12. TYPE OF REPORTING PERSON CO

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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Citadel Investment Group II, L.L.C.

- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

   (a) "
   (b) "
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware

NUMBER OF SHARES	5.	SOLE VOTING POWER 0
BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH		10,162,763 shares
REPORTING PERSON		
WITH	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER

- 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

See Row 6 above.

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.3%

12. TYPE OF REPORTING PERSON OO; HC

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1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Kenneth Griffin

- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

   (a)<sup>..</sup>
   (b)<sup>..</sup>
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION U.S. Citizen

NUMBER OF SHARES	5.	SOLE VOTING POWER 0
BENEFICIALLY OWNED BY	6.	SHARED VOTING POWER
EACH		10,162,763 shares
REPORTING PERSON	_	
WITH	7.	SOLE DISPOSITIVE POWER 0
	8.	SHARED DISPOSITIVE POWER

- 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON See Row 6 above.
- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

See Row 6 above.

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.3%

12. TYPE OF REPORTING PERSON IN; HC

Name of Issuer BioMarin Pharmaceutical Inc. Item 1(b) Address of Issuer's Principal Executive Offices 105 Digital Drive, Novato, California 94949 Item 2(a) Name of Person Filing This Schedule 13G/A is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Holdings II LP ("CH-II"), Citadel Equity Fund Ltd. ("CEF"), Citadel Investment Group II, L.L.C. ("CIG-II") and Mr. Kenneth Griffin (collectively with Citadel Advisors, CH-II, CEF and CIG-II, the "Reporting Persons") with respect to shares of Common Stock of the above-named issuer (and/or options to purchase such shares and/or other securities convertible into such shares) owned by Citadel Derivatives Trading Ltd., a Cayman Islands limited company ("CDT"), CEF, Citadel Global Equities Master Fund Ltd., a Cayman Islands limited company ("CG"), Citadel Securities LLC, a Delaware limited liability company ("Citadel Securities"), Citadel Convertible Opportunities Ltd., a Cayman Islands limited company ("CCO"), and certain segregated accounts. Citadel Advisors is the investment manager for CEF, CCO, CG and certain segregated accounts, and the portfolio The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial Address of Principal Business Office The address of the principal business office of each of the Reporting Persons is c/o Citadel Investment Group, L.L.C., 131 S. Dearborn Street, 32nd Floor, Chicago, Illinois 60603. Item 2(c) Citizenship Each of Citadel Advisors and CIG-II is organized as a limited liability company under the laws of the State of

Delaware. CH-II is organized as a limited partnership under the laws of the State of Delaware. CEF is organized as a limited company under the laws of the Cayman Islands. Mr. Griffin is a U.S. citizen. Item 2(d) Title of Class of Securities Common Stock, \$0.001 par value

Item 2(e)

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Item 1(a)

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manager for CDT. CH-II is the managing member of Citadel Advisors. Citadel Holdings I LP, a Delaware limited partnership ("CH-I"), is the non-member manager of Citadel Securities. CIG-II is the general partner of CH-I and CH-II. Mr. Griffin is the President and Chief Executive Officer of, and owns a controlling interest in, CIG-II.

owner of any securities covered by the statement other than the securities actually owned by such person (if any).

Item 2(b)

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Item 3 If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

(a)	" Broker or dealer registered under Section 15 of the Exchange Act;				
(b)	" Bank as defined in Section 3(a)(6) of the Exchange Act;				
(c)	" Insurance company as defined in Section 3(a)(19) of the Exchange Act;				
(d)	" Investment company registered under Section 8 of the Investment Company Act;				
(e)	" An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);				
(f)	An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);				
(g)	A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);				
(h) "	(h) " A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;				
(i) <sup>"</sup> A church plan Investment Co	in that is excluded from the definition of an investment company under Section $3(c)(14)$ of the ompany Act;				
(j)	" A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J);				
(k)	" Group, in accordance with Rule 13d-1(b)(1)(ii)(K).				
If filing as a non-U	U.S. institution in accordance with Rule $13d-1(b)(1)(ii)(J)$ , please specify the type of institution:				
Item 4	Ownership				
A. Citadel A	dvisors LLC				
(a) C	Citadel Advisors may be deemed to beneficially own 10,128,963 shares of Common Stock.				
(b)The number of	shares Citadel Advisors may be deemed to beneficially own constitutes approximately 9.3% of the				

(b) The number of shares Citadel Advisors may be deemed to beneficially own constitutes approximately 9.3% of the Common Stock outstanding.

Number of shares as to which such person has: (c)

(i)	sole power to vote or to direct the vote: 0		
(ii)	shared power to vote or to direct the vote: 10,128,963		
(iii)	sole power to dispose or to direct the disposition of: 0		

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	(iv)	shared power to dispose	or to direct the disposition of: 10,128,963		
B.	Citadel Holdin	gs II LP			
	(a)	CH-II may be deemed to beneficia	lly own 10,128,963 shares of Common Stock.		
	e number of shar ck outstanding.	es CH-II may be deemed to benefic	ially own constitutes approximately 9.3% of the Common	n	
	(c	Number of	shares as to which such person has:		
		(i) sole pow	ver to vote or to direct the vote: 0		
	(ii)	shared power to	vote or to direct the vote: 10,128,963		
	(iii)	sole power to di	spose or to direct the disposition of: 0		
	(iv)	shared power to dispose	or to direct the disposition of: 10,128,963		
C.	Citadel Equity	Fund Ltd.			
	(a)	CEF may be deemed to beneficia	ally own 7,836,314 shares of Common Stock.		
	e number of shar ck outstanding.	es CEF may be deemed to beneficia	lly own constitutes approximately 7.2% of the Common		
(c)	(c) Number of shares as to which such person has:				
		(i) sole pow	ver to vote or to direct the vote: 0		
	(ii)	shared power to	vote or to direct the vote: 7,836,314		
	(iii)	sole power to di	spose or to direct the disposition of: 0		
	(iv)	shared power to dispose	or to direct the disposition of: 7,836,314		
D.	Citadel Investi	nent Group II, L.L.C.			
	(a)	CIG-II may be deemed to beneficia	ally own 10,162,763 shares of Common Stock.		
(b)The	e number of shar	es CIG-II may be deemed to benefic	cially own constitutes approximately 9.3% of the Commo	on	

Stock outstanding.

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(c)	(c) Number of shares as to which such person has:			
	(i)	sole powe	er to vote or to direct the vote: 0	
	(ii)	shared power to v	vote or to direct the vote: 10,162,763	
	(iii)	sole power to disp	pose or to direct the disposition of: 0	
	(iv)	shared power to dispose o	r to direct the disposition of: 10,162,763	
E.	Kenneth Griffin			
	(a) Mr. Griffi	n may be deemed to beneficia	ally own 10,162,763 shares of Common Stock.	
	e number of shares Mr. ( mmon Stock outstanding	-	eficially own constitutes approximately 9.3% of the	
(c)	Number of shares as t	to which such person has:		
	(i)	sole powe	er to vote or to direct the vote: 0	
	(ii)	shared power to v	rote or to direct the vote: 10,162,763	
	(iii)	sole power to disp	pose or to direct the disposition of: 0	
	(iv)	shared power to dispose o	r to direct the disposition of: 10,162,763	
Item 5 Ownership of Five Percent or Less of a Class If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following o.				
Item 6	Ow	nership of More than Five Pe Not App	ercent on Behalf of Another Person licable	
	dentification and Classif Parent Holding Company	•	ch Acquired the Security Being Reported on by the 2 above	
Item 8			tion of Members of the Group	
item 0		Not App	*	
Item 9		Notice of Diss Not App	solution of Group licable	

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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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	ble inquiry and to the best of its knowledge atement is true, complete and correct.	and belief, th	ne undersigned certify that the information so	et
Dated this 16t	h day of February, 2010.			
CITADEL AI	DVISORS LLC	CITADEL	HOLDINGS II LP	
By:	Citadel Holdings II LP, its Managing Member	By:	Citadel Investment Group II, L.L.C., its General Partner	,
By:	Citadel Investment Group II, L.L.C., its General Partner	By:	/s/ John C. Nagel John C. Nagel, Authorized Signatory	y
By:	/s/ John C. Nagel John C. Nagel, Authorized Signatory			
CITADEL EQ	UITY FUND LTD.	CITADEL	INVESTMENT GROUP II, L.L.C.	
By:	Citadel Advisors LLC, its Investment Manager	By:	/s/ John C. Nagel John C. Nagel, Authorized Signatory	y
By:	Citadel Holdings II LP, its Managing Member			
By:	Citadel Investment Group II, L.L.C., its General Partner			
By:	/s/ John C. Nagel John C. Nagel, Authorized Signatory			
KENNETH G	RIFFIN			
By:	/s/ John C. Nagel John C. Nagel, attorney-in-fact*			

<sup>\*</sup> John C. Nagel is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously filed with the Securities and Exchange Commission on February 24, 2006, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Limited Partnership on Schedule 13G for Morgans Hotel Group Co.