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

BioMarin Pharmaceutical Inc.

#### 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)\*

(Name of Issuer)

CUSIP NO. 09061G101	1	13G	Page 2 of 12	
1.	NAME OF REPORTING PER S.S. OR I.R.S. IDENTIFICAT		BOVE PERSON	
	Citadel Advisors LLC			
2.	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	5.	SOLE VOTING POWER 0	
В	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON	6.	SHARED VOTING POWER	
			10,128,963 shares	
	WITH	7.	SOLE DISPOSITIVE POWER 0	
		8.	SHARED DISPOSITIVE POWER See Row 6 above.	
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			
11.	PERCENT OF CLASS REPR	ESENTED BY A	AMOUNT IN ROW (9)	
	9.3%1			
12.	TYPE OF REPORTING PERSIA;200; HC	SON		

- 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 PER S.S. OR I.R.S. IDENTIFICAT		BOVE PERSON
	Citadel Holdings II LP		
2.	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
В	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER
			10,128,963 shares
		7.	SOLE DISPOSITIVE POWER 0
		8.	SHARED DISPOSITIVE POWER See Row 6 above.
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		
11.	PERCENT OF CLASS REPR	ESENTED BY .	AMOUNT IN ROW (9)
	9.3%		
12.	TYPE OF REPORTING PERSON; HC	SON	

CUSIP NO. 09061G101	1	3G	Page 4 of 12
1.	NAME OF REPORTING PER S.S. OR I.R.S. IDENTIFICAT		BOVE PERSON
	Citadel Equity Fund Ltd.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) "  (b) "		
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLACE Of Cayman Islands	F ORGANIZAT	TION
	NUMBER OF SHARES	5.	SOLE VOTING POWER 0
В	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6.	SHARED VOTING POWER
			7,836,314 shares
		7.	SOLE DISPOSITIVE POWER 0
		8.	SHARED DISPOSITIVE POWER See Row 6 above.
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		
11.	PERCENT OF CLASS REPR	ESENTED BY A	AMOUNT IN ROW (9)
	7.2%		
12.	TYPE OF REPORTING PERS	SON	

CUSIP NO. 09061G101		13G	Page 5 of 12		
1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON				
	Citadel Investment Group II, L.L.C.				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) " (b) "				
3.	SEC USE ONLY				
4.	4. CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
	NUMBER OF	5.	SOLE VOTING POWER		
	NUMBER OF SHARES BENEFICIALLY		0		
В		6.	SHARED VOTING POWER		
	OWNED BY EACH		10,162,763 shares		
	REPORTING				
	PERSON WITH	7.	SOLE DISPOSITIVE POWER 0		
		8.	SHARED DISPOSITIVE POWER See Row 6 above.		
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				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		AMOUNT IN ROW (9)		
	9.3%				
12.	TYPE OF REPORTING PI	ERSON			

OO; HC

CUSIP NO. 09061G101		13G	Page 6 of 12		
1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON				
	Kenneth Griffin				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)" (b)"				
3.	SEC USE ONLY				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION U.S. Citizen				
	NUMBER OF	5.	SOLE VOTING POWER 0		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON				
В		6.	SHARED VOTING POWER		
			10,162,763 shares		
	WITH	7.	SOLE DISPOSITIVE POWER 0		
		8.	SHARED DISPOSITIVE POWER See Row 6 above.		
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				
11.	PERCENT OF CLASS RE	PRESENTED BY A	AMOUNT IN ROW (9)		
	9.3%				
12.	TYPE OF REPORTING PL	ERSON			

IN; HC

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Item 1(a) 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 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.

The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).

Item 2(b) 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) **CUSIP** Number 09061G101

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Item 3 If this	s stateme	nt is filed pursua	nt to Rules 13d-1(b	), or 13d-2(b) or (c), check whether the person filing is a:
	(a)		Broker or dealer re	egistered under Section 15 of the Exchange Act;
	(b)		Bank as de	efined in Section 3(a)(6) of the Exchange Act;
(0	e)	" Inst	arance company as	defined in Section 3(a)(19) of the Exchange Act;
(d)		Investmen	t company registere	ed under Section 8 of the Investment Company Act;
	(e)		An investment adv	viser in accordance with Rule 13d-1(b)(1)(ii)(E);
(f)	A	An employee ben	efit plan or endowr	ment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
(g)		A parent holding	g company or contro	ol person in accordance with Rule 13d-1(b)(1)(ii)(G);
(h)		A savings asso	ciation as defined i	n Section 3(b) of the Federal Deposit Insurance Act;
	•	nat is excluded to pany Act;	from the definition	n of an investment company under Section 3(c)(14) of the
	(j)		A non-U.S. institu	ntion 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	a non-U.S 	S. institution in a	accordance with Ru	ule 13d-1(b)(1)(ii)(J), please specify the type of institution
Item 4				Ownership
A. Cit	tadel Adv	isors LLC		
(a)	Cita	del Advisors ma	y be deemed to ben	reficially own 10,128,963 shares of Common Stock.
		ares Citadel Advutstanding.	isors may be deem	ed to beneficially own constitutes approximately 9.3% of the
(c) Nu	umber of	shares as to whic	h such person has:	
		(i)	sole p	ower to vote or to direct the vote: 0
	<b>(</b> i	ii)	shared power	to vote or to direct the vote: 10,128,963
(iii) sole power to		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	ags II LP	
	(a)	CH-II may be deemed to beneficially	own 10,128,963 shares of Common Stock.
	he number of shar tock outstanding.	es CH-II may be deemed to beneficial	ly own constitutes approximately 9.3% of the Common
	(0	Number of sha	ares as to which such person has:
		(i) sole power	to vote or to direct the vote: 0
	(ii)	shared power to vo	te or to direct the vote: 10,128,963
	(iii)	sole power to dispo	ose 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 beneficially	own 7,836,314 shares of Common Stock.
	he number of shar tock outstanding.	es CEF may be deemed to beneficially	own constitutes approximately 7.2% of the Common
(c)	Number of sha	ares as to which such person has:	
		(i) sole power	to vote or to direct the vote: 0
	(ii)	shared power to v	ote or to direct the vote: 7,836,314
	(iii)	sole power to dispo	ose or to direct the disposition of: 0
	(iv)	shared power to dispose or	to direct the disposition of: 7,836,314
D.	Citadel Invest	ment Group II, L.L.C.	
	(a)	CIG-II may be deemed to beneficially	own 10,162,763 shares of Common Stock.
	he number of shar tock outstanding.	es CIG-II may be deemed to beneficia	lly own constitutes approximately 9.3% of the Common

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(c)	Number of shares as to which such person has:			
	(i)	sole po	ower to vote or to direct the vote: 0	
	(ii)	shared power	to vote or to direct the vote: 10,162,763	
	(iii)	sole power to	dispose or to direct the disposition of: 0	
	(iv)	shared power to dispos	e or to direct the disposition of: 10,162,763	
E.	Kenneth Griffin			
	(a) Mr. Griff	in may be deemed to benef	icially own 10,162,763 shares of Common Stock.	
	e number of shares Mr. mmon Stock outstanding	· ·	peneficially own constitutes approximately 9.3% of the	
(c)	Number of shares as	to which such person has:		
	(i)	sole po	ower to vote or to direct the vote: 0	
	(ii)	shared power	to vote or to direct the vote: 10,162,763	
(iii) sole power to dispose or to direct the disposition		dispose or to direct the disposition of: 0		
(iv) shared power to dispose or to direct the disposition of		e or 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	Ownership of More than Five Percent on Behalf of Another Person Not Applicable			
Item 7Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company  See Item 2 above				
Item 8				
Item 9	Notice of Dissolution of Group Not Applicable			

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

Dated this 16th day of February, 2010.

CITADEL ADVISORS LLC CITADEL HOLDINGS II LP

By: Citadel Holdings II LP, By: Citadel Investment Group II, L.L.C.,

its Managing Member its General Partner

By: Citadel Investment Group II, L.L.C., By: /s/ John C. Nagel

its General Partner John C. Nagel, Authorized Signatory

By: /s/ John C. Nagel

John C. Nagel, Authorized Signatory

CITADEL EQUITY FUND LTD. CITADEL INVESTMENT GROUP II, L.L.C.

By: Citadel Advisors LLC, By: /s/ John C. Nagel

its Investment Manager John C. Nagel, Authorized Signatory

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 GRIFFIN

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.