SECURITIES AND EXCHANGE COMMISSION

	Washington, D.C. 20549			
	FORM 8-K			
	CURRENT REPORT			
Pursuant to Section 13	or 15(d) of the Securities Exc	change Act of 1934		
Date of Report (D	ate of earliest event reported): Febr	uary 23, 2004		
BioMarin Pharmaceutical Inc.				
(Exact n	ame of registrant as specified in its chart	er)		
Delaware (State or other jurisdiction of	000-26727 (Commission	68-0397820 (IRS Employer		
incorporation or organization)	File Number)	Identification No.)		
371 Bel Marin Keys Boulevard, Suite 210, Novato, California (Address of principal executive offices)		94949 (Zip Code)		

Registrant s telephone number, including area code: (415) 506-6700

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Not Applicable

 $(Former\ name\ or\ former\ address,\ if\ changed\ since\ last\ report)$

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On February 23, 2004, BioMarin Pharmaceutical Inc. (the Registrant), issued a press release regarding the Registrant s initiation of a clinical program for the treatment of phenylketonuria (PKU). The Registrant s press release issued on February 23, 2004 is attached hereto as Exhibit 99.1.

Item 7. Financial Statements, Pro Forma Financial Statements and Exhibits.

(a) Financial Statements of Business Acquired.

Not Applicable.

Item 5. Other Events.

(b) Pro Forma Financial Information.

Not Applicable.

(c) Exhibits.

Exhibit 99.1 Press Release of the Registrant dated February 23, 2004.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

BioMarin Pharmaceutical Inc.,

a Delaware corporation

Date: February 23, 2004 By: /s/ Louis Drapeau

Louis Drapeau Chief Financial Officer

EXHIBIT INDEX

Exhibit No. Description

Exhibit 99.1 Press Release of the Registrant dated February 23, 2004.