# SECURITIES AND EXCHANGE COMMISSION

SECURITIES A	AND EXCHANGE CO	
	Washington, D.C. 20549	
	FORM 8-K	
	CURRENT REPORT	
Pursuant to Section	13 or 15(d) of the Securities Exch	nange Act of 1934
Date of Repo	rt (Date of earliest event reported): Augus	st 24, 2004
	erin Pharmaceutica	
Delaware (State or other jurisdiction of	000-26727 (Commission File Number)	68-0397820 (IRS Employer
incorporation or organization)		Identification No.)
371 Bel Marin Keys Boulevard, Suite 210, Nova (Address of principal executive offices		94949 (Zip Code)

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

Not Applicable

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

Check the appropriate box below if the Form 8-K filing is	intended to simultaneously sat	tisfy the filing obligation	n of the registrant under any of
the following provisions (see General Instruction A.2. below	ow):		

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 8.01. Other Events.	tem 8	.01.	Other	Events.	
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On August 24, 2004, BioMarin Pharmaceutical Inc. (the Registrant ), issued a press release regarding the announcement of the filing of an Investigational New Drug Application for Phenoptin for the treatment of PKU. The Registrant s press release issued on August 24, 2004 is attached hereto as Exhibit 99.1.

#### Item 9.01. Financial Statements, Pro Forma Financial Statements and Exhibits.

(a) Financial Statements of Business Acquired.

Not Applicable.

(b) Pro Forma Financial Information.

Not Applicable.

(c) Exhibits.

Exhibit 99.1 Press Release of the Registrant dated August 24, 2004.

#### **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.

Date: August 24, 2004

BioMarin Pharmaceutical Inc., a Delaware corporation

By: /s/ Jeffrey H. Cooper

Jeffrey H. Cooper Chief Financial Officer

### EXHIBIT INDEX

Exhibit No.	Description
Exhibit 99.1	Press Release of the Registrant dated August 24, 2004