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

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported) February 21, 2008

BSD MEDICAL CORPORATION (Exact name of registrant as specified in its charter)

Delaware	0-10783	75-1590407
(State or other jurisdiction	(Commission	(IRS Employer
of incorporation)	File Number)	Identification)

2188 West 2200 South Salt Lake City, Utah 84119 (Address of principal executive offices, including Zip Code) Registrant's telephone number, including area code: (801) 972-5555

N/A (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 satisfy the filing obligation of the registrant under any of the following provisions:

 $|_|$ 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))

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Item 7.01 Regulation FD Disclosure.

BSD Medical Corporation issued a press release on February 21, 2008. A copy of the press release is hereby furnished as Exhibit 99.1 attached hereto.

Item 9.01. Financial Statements and Exhibits.

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(d) Exhibits

99.1 Press Release of BSD Medical Corporation dated February 21, 2008

SIGNATURES

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.

Dated: February 21, 2008

By: /s/ Hyrum A. Mead

Hyrum A. Mead President

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EXHIBIT INDEX

Exhibit No.

Description

99.1 Press Release of BSD Medical Corporation dated February 21, 2008

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