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): April 8, 2011

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

Delaware 0-10783 75-1590407 (State or other jurisdiction of incorporation) (Commission File Number) (IRS Employer Identification No.)

> 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)
- o 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 2.02 Results of Operations and Financial Condition.

On April 8, 2011, BSD Medical Corporation (the "Company") issued a press release reporting financial results for its second fiscal quarter ended February 28, 2011. A copy of the press release is furnished herewith as Exhibit 99.1 and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

ExhibitDescription99.1Press Release dated April 8, 2011

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.

BSD MEDICAL CORPORATION

Date: April 8, 2011

By: /s/ Dennis P. Gauger Name: Dennis P. Gauger Title: Chief Financial Officer

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EXHIBIT INDEX

Exhibit No. Description 99.1 Press Release dated April 8, 2011

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