

BSD MEDICAL CORP  
Form 8-K  
May 18, 2009

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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) May 18, 2009

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

|   |                                     |   |
|---|-------------------------------------|---|
| Delaware<br>(State or other jurisdiction of<br>incorporation) | 0-10783<br>(Commission File Number) | 75-1590407<br>(IRS Employer 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 Regulation FD Disclosure.

7.01

BSD Medical Corporation issued a press release on May 18, 2009 announcing that the U.S. Food and Drug Administration (FDA) has granted Humanitarian Use Device (HUD) designation for the Company's BSD-2000 Hyperthermia System for use in conjunction with radiation therapy for the treatment of cervical carcinoma patients who are ineligible for chemotherapy. A copy of the press release is hereby furnished as Exhibit 99.1 attached hereto and incorporated by reference herein.

Item Financial Statements and Exhibits.

9.01

(d) Exhibits

99.1 Press Release of BSD Medical Corporation dated May 18, 2009.

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: May 18, 2009

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

EXHIBIT INDEX

| Exhibit No. | Description   |
|-------------|---|
| 99.1        | Press Release of BSD Medical Corporation dated May 18, 2009 |

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