

BSD MEDICAL CORP  
Form 8-K  
August 18, 2010

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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): August 18, 2010

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

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

On August 18, 2010, BSD Medical Corporation (the “Company”) issued a press release announcing that the U.S. Food and Drug Administration has granted the Company a 510(k) clearance to market its MicroThermX Microwave Ablation System for ablation of soft tissue. A copy of the press release is furnished as Exhibit 99.1 and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

| Exhibit No. | Description                         |
|-------------|-------------------------------------|
| 99.1        | Press Release dated August 18, 2010 |

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.

Date: August 18, 2010

BSD MEDICAL CORPORATION

By: /s/ Dennis P.

Gauger

Name: Dennis P. Gauger

Title: Chief Financial Officer

EXHIBIT INDEX

| Exhibit No. | Description                         |
|-------------|-------------------------------------|
| 99.1        | Press Release dated August 18, 2010 |