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): January 28, 2015

BSD MEDICAL CORPORATION

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation)

001-32526 (Commission File Number)

75-1590407

(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:

- o 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)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.

On January 28, 2015, Douglas P. Boyd, Ph.D. resigned from the board of directors of the Company effective immediately. As a result, Dr. Boyd also ceased immediately to be the chairman of the Company's Compensation Committee and a member of the Company's Audit Committee and Corporate Governance and Nominating Committee. Dr. Boyd's resignation was voluntary.

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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.

BSD MEDICAL CORPORATION

Date: February 3, 2015 By: /s/ William S. Barth

William S. Barth

Chief Financial Officer

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