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**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, DC 20549**

**FORM 8-K**

**CURRENT REPORT PURSUANT  
TO SECTION 13 OR 15(D) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

**February 27, 2015**

Date of Report (Date of earliest event reported)

**BOVIE MEDICAL  
CORPORATION**

(Exact name of registrant as specified in its Charter)

**Delaware**

(State or other jurisdiction  
of incorporation)

**012183**

(Commission File Number)

**11-2644611**

(IRS Employer  
Identification No.)

**4 Manhattanville Road, Suite 106  
Purchase, New York 10577**

(Address of principal executive offices) (Zip Code)

**(914) 468-4009**

Registrant's telephone number, including area code

(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 (see General Instruction A.2. below):

- .. 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))

**Item 2.02 Results of Operations and Financial Condition**

On February 27, 2015, Bovie Medical Corporation (the “Company”) issued a press release reporting on its results of operations for the fourth quarter and fiscal year ended December 31, 2014. A copy of that press release is being furnished as Exhibit 99.1 hereto.

The information in this Current Report, including the exhibit attached hereto, is being furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liabilities of such section. The information in this Current Report, including the exhibit, shall not be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any incorporation by reference language in any such filing, unless the Company expressly sets forth in such future filing that such information is to be considered "filed" or incorporated by reference therein.

**Item 9.01 Financial Statements and Exhibits**

(d)

<b>Exhibit No.</b>	<b>Description</b>
99.1	Press release dated February 27, 2015

**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.

**BOVIE MEDICAL CORPORATION**

Date: March 2, 2015

By: /s/ Robert L. Gershon  
Robert L. Gershon  
Chief Executive Officer