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

Date of Report (Date of earliest event reported): July 1, 2015

CAS MEDICAL SYSTEMS, INC.

(Exact name of Registrant as specified in its charter)

Delaware 0-13839 06-1123096
(State or other jurisdiction (Commission (I.R.S. Employer of incorporation) File Number) Identification No.)

44 East Industrial Road, Branford, Connecticut 06405 (Address of principal executive offices, including zip code)

(203) 488-6056 (Registrant's telephone number, including area code)

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):

- 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))

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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 July 1, 2015, Brian Wagner stepped down, effective July 10, 2015, from his position as Chief Commercial Officer of CAS Medical Systems, Inc. (the "Company"). In conjunction with the foregoing, the Company: (i) partially accelerated the vesting of Mr. Wagner's stock options (specifically, allowing for the immediate exercise of the option to purchase 46,875 shares of the Company's common stock at \$1.35 per share) and (ii) extended the expiration date of all of Mr. Wagner's vested stock options by six months, from October 10, 2015 to April 10, 2016.

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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.

CAS MEDICAL SYSTEMS, INC.

Date: July 7, 2015 By: /s/ Jeffery A. Baird

Jeffery A. Baird

Chief Financial Officer