
**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: November 1, 2016
(Date of earliest event reported)

ENTEROMEDICS INC.

(Exact name of registrant as specified in its charter)

Commission File Number: 1-33818

Delaware
(State or other jurisdiction of incorporation)

48-1293684
(IRS Employer Identification No.)

2800 Patton Road, St. Paul, Minnesota 55113
(Address of principal executive offices, including zip code)

(651) 634-3003
(Registrant's telephone number, including area code)

Not Applicable
(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 8.01 Other Events.

On November 1, 2016, EnteroMedics Inc. (the “Company”) announced that, as of November 1, 2016, there were 91,375,309 shares of the Company’s common stock issued and outstanding, an increase of 21,679,150 shares since September 14, 2016, the last date for which the Company had publically announced its issued and outstanding share count. The increase in the Company’s share count is a result of the conversion or acceleration of outstanding principal and interest amounts of the Company’s outstanding 7.0% senior amortizing convertible notes (the “Notes”) by the holders of the Notes.

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.

ENTEROMEDICS INC.

By: /s/ Scott Youngstrom
Scott Youngstrom
Chief Financial Officer and Chief Compliance Officer

Date: November 1, 2016