

**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): November 27, 2017

Cardiovascular Systems, Inc.

(Exact name of Registrant as Specified in its Charter)

Delaware
**(State or Other Jurisdiction
of Incorporation)**

000-52082
**(Commission
File Number)**

41-1698056
**(IRS Employer
Identification No.)**

**1225 Old Highway 8 Northwest
St. Paul, Minnesota 55112-6416**
(Address of Principal Executive Offices and Zip Code)

(651) 259-1600
(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))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

On November 27, 2017, Cardiovascular Systems, Inc. (the “Company”) and Kevin Kenny, the Company’s Chief Operating Officer, agreed that Mr. Kenny’s employment with the Company will end, effective December 31, 2017.

The Company expects to enter into a Separation Agreement with Mr. Kenny that will provide Mr. Kenny with benefits consistent with the Company’s Executive Officer Severance Plan. The Company will disclose the terms of such Separation Agreement following execution of such Separation Agreement by the parties.

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: November 28, 2017

CARDIOVASCULAR SYSTEMS, INC.

By: /s/ Laurence L. Betterley

Laurence L. Betterley
Chief Financial Officer