Cardiovascular Systems Inc Form 8-K October 25, 2017

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): October 25, 2017 Cardiovascular Systems, Inc. (Exact name of Registrant as Specified in its Charter)

Delaware000-5208241-1698056(State or Other Jurisdiction(Commission(IRS Employerof Incorporation)File Number)Identification No.)1225 Old Highway 8 NorthwestIdentification No.)1225 Old Highway 8 NorthwestSt. 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:

oWritten 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)

oPre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

oPre-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 o

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. o

Item 2.02. Results of Operations and Financial Condition.

On October 25, 2017, Cardiovascular Systems, Inc. (the "Company") issued a press release regarding the Company's financial results for its first fiscal quarter ended September 30, 2017. A copy of the Company's press release is attached hereto as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d)Exhibits

Exhibit Number Description

99.1 Press Release dated October 25, 2017.

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: October 25, 2017

CARDIOVASCULAR SYSTEMS, INC.

By: /s/ Laurence L. Betterley Laurence L. Betterley Chief Financial Officer