| 000-49798 | 94-2340464 (IRS Employer Identification |
|---|---|
| (State of Other Jurisdiction | n of Incorporation) |
| (Exact name of registrant of California | as specified in its charter) |
| THORATEC CORPORA | ATION |
| Date of report (Date of ea | arliest event reported): May 6, 2014 |
| Current Report Pursuant | t to Section 13 or 15(d) of the Securities Exchange Act of 1934 |
| FORM 8-K | |
| Washington, D.C. 20549 | |
| SECURITIES AND EXC | CHANGE COMMISSION |
| UNITED STATES | |
| | |
| May 06, 2014 | |
| Form 8-K | |

6035 Stoneridge Drive

(Commission File Number)

Number)

THORATEC CORP

Pleasanton, California 94588

| (Address of principal executive offices including zip code) (925) 847-8600 |
|--|
| (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 o the registrant under any of the following provisions: |
| 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)) |
| o 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 May 6, 2014, Thoratec Corporation (the "Company") issued a press release announcing its first quarter ended March 29, 2014 results, the text of which is attached hereto as Exhibit 99.1.

The information in this Current Report on Form 8-K, including the exhibit, is furnished pursuant to Item 2.02 and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities under that Section. Furthermore, the information in the Current Report on Form 8-K, including the exhibit, shall not be deemed to be incorporated by reference into the filings of the Company under the Securities Act of 1933, as amended.

Item 9.01 Financial Statements and Exhibits

(c) Exhibits

No. Exhibit

99.1 Press Release, dated May 6, 2014 regarding results for the first quarter ended March 29, 2014.

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.

Dated as of May 6, 2014

THORATEC CORPORATION

By: /s/ Gerhard F. Burbach Gerhard F. Burbach President and Chief Executive Officer

EXHIBIT INDEX

Exhibit No. Description

99.1 Press Release, dated May 6, 2014, regarding results for the first quarter ended March 29, 2014.