

THORATEC CORP  
Form 8-K  
July 29, 2004

**Table of Contents**

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**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): July 29, 2004  
THORATEC CORPORATION**

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*(Exact name of registrant as specified in its charter)*  
**California**

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*(State of Other Jurisdiction of Incorporation)*

**1-8145**

**94-2340464**

*(Commission File Number)*

*(IRS Employer Identification  
Number)*

**6035 Stoneridge Drive  
Pleasanton, California 94588**

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*(Address of principal executive offices including zip code)*  
**(925) 847-8600**

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*(Registrant's telephone number, including area code)*  
**Not Applicable**

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*(Former name or former address, if changed since last report)*

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**TABLE OF CONTENTS**

Item 12. Results of Operations and Financial Condition

Signature

EXHIBIT INDEX

EXHIBIT 99.1

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**Table of Contents**

**Item 12. Results of Operations and Financial Condition**

On July 29, 2004, Thoratec Corporation (the Company ) issued a press release announcing its fiscal 2004 second quarter 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 12 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.

<b>No.</b>	<b>Exhibit</b>
99.1	Press Release, dated July 29, 2004, regarding fiscal 2004 second quarter results.

**Table of Contents**

**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 July 29, 2004

**THORATEC CORPORATION**

By: */s/ M. Wayne Boylston*

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M. Wayne Boylston  
*Senior Vice President, Chief Financial  
Officer and Secretary*

3

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**Table of Contents**

**EXHIBIT INDEX**

<b><u>Exhibit No.</u></b>	<b><u>Description</u></b>
99.1	Press Release issued by Thoratec Corporation, dated July 29, 2004.