

THORATEC CORP  
Form 4  
May 24, 2005

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
NELSON JEFFREY

(Last) (First) (Middle)

6035 STONERIDGE DRIVE

(Street)

PLEASANTON, CA 94588

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
THORATEC CORP [THOR]

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/20/2005

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
Division President

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  | Code                           | V   | Amount or Price   |  |                                   |
| Common Stock                    | 05/20/2005                           |  | M                              |   | 43,818 A \$ 5.79  | 43,818   | D                                 |
| Common Stock                    | 05/20/2005                           |  | S                              |   | 43,818 D \$ 15.12   | 0  | D                                 |
| Common Stock                    | 05/23/2005                           |  | M                              |   | 15,371 A \$ 5.79  | 15,371   | D                                 |
| Common Stock                    | 05/23/2005                           |  | M                              |   | 13,911 A \$ 5.79  | 29,282   | D                                 |
| Common Stock                    | 05/23/2005                           |  | S                              |   | 29,282 D \$ 14.93   | 0  | D                                 |

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| Stock Option (right to buy)                | \$ 5.79  | 05/20/2005                           |  | M                              | 43,818  | 08/19/2003 <sup>(1)</sup> 08/19/2012                     | Common Stock  | 43,818                     |
| Stock Option (right to buy)                | \$ 5.79  | 05/23/2005                           |  | M                              | 13,911  | 08/19/2003 <sup>(1)</sup> 08/19/2012                     | Common Stock  | 13,911                     |
| Stock Option (right to buy)                | \$ 5.79  | 05/23/2005                           |  | M                              | 15,371  | 03/19/2003 08/19/2012                                    | Common Stock  | 15,371                     |

## Reporting Owners

| Reporting Owner Name / Address                                  | Relationships |           |                    |       |
|---|---------------|-----------|--------------------|-------|
|   | Director      | 10% Owner | Officer            | Other |
| NELSON JEFFREY<br>6035 STONERIDGE DRIVE<br>PLEASANTON, CA 94588 |               |           | Division President |       |

## Signatures

/s/D. Keith Grossman,  
Attorney-In-Fact

05/23/2005

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
  - \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Shares vest in four equal installments over four years commencing one year after the grant date.
  - (2) This option was granted pursuant to the Company's equity incentive plans with no payment received for the option.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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