

GROSSMAN D KEITH

Form 4

August 11, 2009

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 *
GROSSMAN D KEITH

(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)

08/07/2009

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)

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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| Common Stock | | | | | 12,500 | D | |
| Common Stock | 08/07/2009 | | S | 400 D | \$ 28 46,608 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | | S | 4,305 D | \$ 27.5 42,303 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | | S | 2,300 D | \$ 27.51 40,003 | I | By Separate |

| | | | | | | | | |
|--------------|------------|---|-------|---|-----------|--------|---|--|
| Common Stock | 08/11/2009 | S | 2,200 | D | \$ 27.53 | 37,803 | I | Property Trust ⁽¹⁾ By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | S | 2,100 | D | \$ 27.54 | 35,703 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | S | 300 | D | \$ 27.545 | 35,403 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | S | 1,795 | D | \$ 27.55 | 33,608 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | S | 1,000 | D | \$ 27.56 | 32,608 | I | By Separate Property Trust ⁽¹⁾ |
| Common Stock | 08/11/2009 | S | 600 | D | \$ 27.6 | 32,008 | I | By Separate Property Trust ⁽¹⁾ |

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

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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) | 8. Price of Derivative Security (Instr. 5) | 9. Nu... | | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|-----------------|-------|-----------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or |

Number
of
Shares

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| GROSSMAN D KEITH 6035 STONERIDGE DRIVE PLEASANTON, CA 94588 | | X | | |

Signatures

/s/ David A. Lehman,
Attorney-In-Fact

08/11/2009

__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) D. Keith Grossman & Hallie Hildebrand Grossman, TTEES Grossman Family Trust

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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