

GROSSMAN D KEITH  
 Form 4  
 February 06, 2006

**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**

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
**6035 STONERIDGE DRIVE**  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
**02/02/2006**

Director  10% Owner  
 Officer (give title below)  Other (specify below)

**PLEASANTON, CA 94588**

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

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

(City) (State) (Zip)

**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 (A) or (D) Price		
Common Stock	02/02/2006		F		57,188 (1) \$ 19.24	D	D
Common Stock	02/02/2006		M		18,000 \$ 8.78	D	D
Common Stock	02/02/2006		M		18,000 \$ 8.78	D	D
Common Stock	02/02/2006		M		21,000 \$ 12.45	D	D
Common Stock	02/02/2006		S		124,812 \$ 19.51	D	D
	02/03/2006		M		30,000	D	D

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Common Stock					\$ 12.45		
Common Stock	02/03/2006	S	30,000	D	\$ 19.01	58,508	D
Common Stock	02/06/2006	M	75,000	A	\$ 12.45	133,508	D
Common Stock	02/06/2006	M	160,000	A	\$ 16.56	293,508	D
Common Stock	02/06/2006	M	32,998	A	\$ 13.97	326,506	D
Common Stock	02/06/2006	M	3,002	A	\$ 13.97	329,508	D
Common Stock	02/06/2006	S	271,000	D	\$ 19.06	58,508	D

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 Security (Instr. 3 and 4)	Amount of Underlying Security	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount of Underlying Security
Employee Stock Option (right to buy)	\$ 8.78	02/02/2006		M	18,000	02/25/2004 <sup>(2)</sup>	02/25/2013	Common Stock	18,000
Employee Stock Option (right to buy)	\$ 8.78	02/02/2006		M	18,000	02/25/2004 <sup>(2)</sup>	02/25/2013	Common Stock	18,000
Employee Stock Option	\$ 12.45	02/02/2006		M	21,000	10/14/2004 <sup>(4)</sup>	04/14/2014	Common Stock	21,000

(right to buy)

Employee Stock

Option \$ 12.45 02/03/2006 M 30,000 10/14/2004<sup>(4)</sup> 04/14/2014 Common Stock 30

Employee Stock

Option \$ 12.45 02/06/2006 M 75,000 10/14/2004<sup>(4)</sup> 04/14/2014 Common Stock 75

Employee Stock

Option \$ 16.56 02/06/2006 M 160,000 12/06/2002<sup>(2)</sup> 12/06/2011 Common Stock 160

Employee Stock

Option \$ 13.97 02/06/2006 M 32,998 06/05/2004<sup>(2)</sup> 06/05/2013 Common Stock 32

Employee Stock

Option \$ 13.97 02/06/2006 M 3,002 06/05/2004<sup>(2)</sup> 06/05/2013 Common Stock 3

## 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 Lehman,  
Attorney-In-Fact

02/06/2006

\_\_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 withheld to pay taxes applicable to the vesting of restricted stock.

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- (2) Shares vest in four equal installments over four years commencing one year after the grant date.
- (3) This option was granted pursuant to the Company's equity incentive plan with no payment received for the option.
- (4) Shares vest in 6 equal installments over three years commencing six months after the grant date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.