

GROSSMAN D KEITH  
 Form 4  
 November 10, 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 \*  
**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)  
 11/08/2005

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)  
 Chief Executive Officer

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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	11/08/2005		M		67,000	A	\$ 8.25
							375,508
Common Stock	11/08/2005		S		67,000	D	\$ 19.587
							308,508
Common Stock	11/09/2005		M		40,879	A	\$ 8.25
							349,387
Common Stock	11/09/2005		M		12,121	A	\$ 8.25
							361,508
Common Stock	11/09/2005		M		52,500	A	\$ 10.563
							414,008

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Common Stock	11/09/2005	S	105,500	D	\$ 19.5	308,508	D
Common Stock	11/10/2005	M	12,000	A	\$ 10.563	320,508	D
Common Stock	11/10/2005	M	42,664	A	\$ 9.375	363,172	D
Common Stock	11/10/2005	M	47,336	A	\$ 9.375	410,508	D
Common Stock	11/10/2005	S	102,000	D	\$ 19.5	308,508	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 Securities (Instr. 3 and 4)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 8.25	11/08/2005		M	67,000	05/18/1999 <sup>(1)</sup>	05/18/2009	Common Stock	67,000
Stock Option (right to buy)	\$ 8.25	11/09/2005		M	40,879	05/18/1999 <sup>(1)</sup>	05/18/2009	Common Stock	40,879
Stock Option (right to buy)	\$ 8.25	11/09/2005		M	12,121	05/18/1999 <sup>(1)</sup>	05/18/2009	Common Stock	12,121
Stock Option (right to buy)	\$ 10.563	11/09/2005		M	52,500	04/24/2000 <sup>(2)</sup>	04/24/2010	Common Stock	52,500

Stock Option (right to buy)	\$ 10.563	11/10/2005	M	12,000	04/24/2000 <sup>(2)</sup>	04/24/2010	Common Stock	12,000
Stock Option (right to buy)	\$ 9.375	11/10/2005	M	42,664	02/23/2001 <sup>(1)</sup>	02/23/2010	Common Stock	42,664
Stock Option (right to buy)	\$ 9.375	11/10/2005	M	47,336	02/23/2001 <sup>(1)</sup>	02/23/2010	Common Stock	47,336

## Reporting Owners

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

## Signatures

/s/D. Keith  
Grossman

11/10/2005

\*\*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) Shares vest in four equal installments every six months commencing six months after the grant date.
- (3) This option was granted pursuant to the Company's equity incentive plans with no payment received for the option.

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