

SECURITIES AND EXCHANGE COMMISSION

FORM 4/A

Statement of changes in beneficial ownership of securities [amend]

Filing Date: **2005-05-02** | Period of Report: **2005-04-29**
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ISSUER

THORATEC CORP

CIK: **350907** | IRS No.: **942340464** | State of Incorpor.: **CA** | Fiscal Year End: **0102**
SIC: **3845** Electromedical & electrotherapeutic apparatus

Mailing Address
6035 STONERIDGE DR
PLEASANTON CA 94588

Business Address
6035 STONERIDGE DR
PLEASANTON CA 94588
9258478600

REPORTING OWNER

GROSSMAN D KEITH

CIK: **1218702**
Type: **4/A** | Act: **34** | File No.: **000-49798** | Film No.: **05792477**

Business Address
6035 STONERIDGE DRIVE
PLEASANTON CA 94588
9258478600

FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chief Executive Officer	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/29/2005		6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person	
6035 STONERIDGE DRIVE			4. If Amendment, Date Original Filed(Month/Day/Year) 05/02/2005			
(Street) PLEASANTON, CA 94588						
(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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)			
Common Stock	04/29/2005		M		18,000	A \$5	326,508	D	
Common Stock	04/29/2005		S		18,000	D \$13.045	308,508	D	

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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					
Stock Option (right to buy)	\$5	04/29/2005		M		18,000		11/14/1997 ⁽¹⁾	11/14/2007	Common Stock 18,000	\$0 ⁽²⁾	165,333	D	

Explanation of Responses:

- Shares vest in five installments over four years, commencing on the grant date.
- This option was granted pursuant to the Company's equity incentive plans with no payment received for the option.

Signatures

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

* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.