

Dallas H James
 Form 4
 October 31, 2007

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 *
 Dallas H James

(Last) (First) (Middle)
 710 MEDTRONIC PKWY MS
 LC310
 (Street)

MINNEAPOLIS, MN 55432

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 MEDTRONIC INC [MDT]

3. Date of Earliest Transaction
 (Month/Day/Year)
 10/29/2007

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)
 SrVP & Chief Information 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 Ownership (Instr. 4)
				(A) or (D) Price			
Common Stock	10/29/2007		A ⁽¹⁾	5,234 A \$ 0	51,527.819 ⁽²⁾	D	

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)

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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 Options (Right to buy)	\$ 47.77	10/29/2007		A	23,028	10/29/2008 ⁽³⁾ 10/29/2017	Common Stock	23,028

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Dallas H James 710 MEDTRONIC PKWY MS LC310 MINNEAPOLIS, MN 55432			SrVP & Chief Information Officer	

Signatures

James N. Spolar,
Attorney-in-fact

10/31/2007

__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).

(3) These options become exercisable at the rate of 25% of the shares granted per year beginning on the first anniversary of grant.

The restrictions on these shares shall lapse 100% on the third anniversary of the grant date if the Company's cumulative earnings per share

(1) growth during the 36 month period ending on the last day of the Company's fiscal year 2010 equals or exceeds a 9% compound annual growth rate, as determined by the Compensation Committee.

(2) This balance increased by 751.288 due to exempt transactions such as dividend reinvestment and ESPP.

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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