Mackin James P Form 4 April 02, 2009

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16. Form 4 or

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue. See Instruction

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(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Mackin James P | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|--|---|--|--|--|
| (Last) (First) (Middle) | MEDTRONIC INC [MDT] 3. Date of Earliest Transaction | (Check all applicable) | | | |
| 710 MEDTRONIC PKWY MS LC310 | (Month/Day/Year) 03/31/2009 | Director 10% Owner Officer (give title below) Other (specify below) SVP & Pres CRDM | | | |
| (Street) | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | | |
| MINNEAPOLIS, MN 55432 | | Form filed by More than One Reporting Person | | | |

| (City) | (State) (| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | |
|------------------------|--------------------------------------|--|--------------------|---|------------------|-------------------------|--|----------------------------|----------------------|
| 1.Title of Security | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if | 3. Transactio | 4. Securities Acquired action(A) or Disposed of (D) | | 5. Amount of Securities | 6. Ownership Form: Direct | 7. Nature of Indirect | |
| (Instr. 3) | (| any | Code | * | | Beneficially | (D) or | Beneficial | |
| | | (Month/Day/Year) | (Instr. 8) Code V | Amount | (A) or (D) | Price | Owned Following Reported Transaction(s) (Instr. 3 and 4) | Indirect (I) (Instr. 4) | Ownership (Instr. 4) |
| Common Stock | | | | | | | 745.076 | I | ESOP |
| Common Stock (1) | 03/31/2009 | | F | 1,326 | D | \$ 29.47 | 86,189.557 | D | |

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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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 | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|------------------|-------------|-----------------|--------------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transactio | onNumber | Expiration D | ate | Amoun | t of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underly | ying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securit | ies | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. 3 | 3 and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | • | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | A manuat | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | Or Number | | |
| | | | | | | Exercisable Date | | Fitle Number of | | | |
| | | | | C + V | (A) (D) | | | | | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships |
|--------------------------------|---------------|
| | |

Officer Director 10% Owner Other

Mackin James P SVP & 710 MEDTRONIC PKWY MS LC310 Pres MINNEAPOLIS, MN 55432 **CRDM**

Signatures

James N. Spolar, 04/02/2009 Attorney-in-fact

**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).
- This direct holdings balance has increased by 779.321 shares due to exempt transactions such as dividend reinvestment and dividend equivalent credits.

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.

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