WARD SCOTT R Form 4 March 30, 2010

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

Expires: January 31, 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per response... 0.5

Form 4 or 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 Addr WARD SCOT	*	ng Person *	2. Issuer Name and Ticker or Trading Symbol MEDTRONIC INC [MDT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
710 MEDTRONIC PKWY MS LC310			(Month/Day/Year) 03/23/2010	Director 10% Owner Officer (give title Other (specify below) SVP & Pres CardioVascular			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
MINNEAPOLIS, MN 55432			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State) (Z	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								lly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)		4. Securities nAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		5. Amount of Securities Form: Direct (D) or Owned Indirect (I) (Instr. 4) Reported Transaction(s) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock			Code	V	Amount	(D)	Price	1,704.549	I	401(k)
Common Stock								5,082.394	I	ESOP
Common Stock	03/23/2010		G	V	3,151	A	\$0	7,997	I	Spouse Rev Trust
Common Stock	03/23/2010		G	V	3,151	D	\$0	97,721.508	D (1)	

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

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SEC 1474 (9-02)

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

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. Titl	le and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	ınt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Secur	ities	(Instr. 5)
	Derivative				Securities	3		(Instr.	3 and 4)	
	Security				Acquired					
	·				(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
					.,					
									Amount	
						Date	Expiration		or	
						Exercisable	Date	Title I	Number	
									of	
				Code V	(A) (D)				Shares	

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

WARD SCOTT R 710 MEDTRONIC PKWY MS LC310 MINNEAPOLIS, MN 55432

SVP & Pres CardioVascular

Signatures

James N. Spolar, Attorney-in-fact 03/30/2010

**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) This balance increased by 416.645 shares due to exempt transactions such as dividend reinvestment.

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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