McPherson Scott E Form 4 April 05, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

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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).

(City)

Coremark Common

Stock

(State)

03/31/2010

03/31/2010

(Zip)

(Print or Type Responses)

may continue.

See Instruction

1. Name and Address of Reporting Person * McPherson Scott E			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			Core-Mark Holding Company, Inc. [CORE]	(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	Director 10% Owner Officer (give title Other (specify		
395 OYSTER POINT BLVD., SUITE 415			03/31/2010	below) below) SVP - Corporate Development		
(Street) SOUTH SAN FRANCISCO, CA 94080			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			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-Do	erivative S	Securi	ities Acqu	iired, Disposed of	, or Beneficiall	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securi on(A) or Di (Instr. 3,	ispose 4 and (A) or	d of (D)	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)
Coremark Common Stock	03/31/2010		M	370	A	\$ 0.01	26,835	D	
Coremark Common Stock	03/31/2010		M	812	A	\$ 0.01	27,647	D	

720

98 (1)

D

M

F

\$ 0.01 28,367

28,269

D

D

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Coremark Common Stock				\$ 30.61		
Coremark Common Stock	03/31/2010	F	191 (2) D	\$ 30.61	28,078	D
Coremark Common Stock	03/31/2010	F	69 <u>(3)</u> D	\$ 30.61	28,009	D
Coremark Common Stock	03/31/2010	F	215 (4) D	\$ 30.61	27,794	D
Coremark Common Stock	03/31/2010	F	188 <u>(5)</u> D	\$ 30.61	27,606	D

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

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SEC 1474 (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. Transactic Code (Instr. 8)	5. Number on f 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricted Stock Units 07LTIP	\$ 0.01	03/31/2010		M	370	07/02/2008	07/01/2017	Coremark Common Stock	370
Restricted Stock Units 07LTIP	\$ 0.01	03/31/2010		M	720	01/01/2009	01/31/2018	Coremark Common Stock	720
	\$ 0.01	03/31/2010		M	812	02/01/2010	01/21/2019		812

Restricted Coremark
Stock Common
Units Stock
07LTIP

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

McPherson Scott E 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080

SVP - Corporate Development

Relationships

Signatures

Amy Morgan, 04/05/2010 POA

**Signature of
Reporting Person

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

Date

- ** 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 withheld for taxes on RSU vesting
- (2) Shares withheld for taxes on RSU vesting
- (3) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I
- (4) Shares withheld for taxes on RSU Vesting
- (5) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I

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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