

McPherson Scott E
 Form 4
 September 21, 2010

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 *
 McPherson Scott E

2. Issuer Name and Ticker or Trading Symbol
 Core-Mark Holding Company, Inc.
 [CORE]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 395 OYSTER POINT BLVD.,
 SUITE 415
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 09/17/2010

____ Director
 ____ Officer (give title below) SVP - Corporate Development
 ____ 10% Owner
 ____ Other (specify below)

SOUTH SAN FRANCISCO, CA 94080

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(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)
				(A) or (D)	Price		
				Code	V	Amount	
Coremark Common Stock	09/17/2010		M	A	\$ 15.5	33,554	D
Coremark Common Stock	09/17/2010		S	D	\$ 30	31,554	D
Coremark Common Stock	09/17/2010		S	D	\$ 30.01	30,642	D
	09/17/2010		S	D	\$ 30.02	30,442	D

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Coremark Common Stock							
Coremark Common Stock	09/17/2010	S	300	D	\$ 30.03	30,142	D
Coremark Common Stock	09/17/2010	S	241	D	\$ 30.04	29,901	D
Coremark Common Stock	09/17/2010	S	800	D	\$ 30.05	29,101	D
Coremark Common Stock	09/17/2010	S	100	D	\$ 30.0575	29,001	D
Coremark Common Stock	09/17/2010	S	900	D	\$ 30.08	28,101	D
Coremark Common Stock	09/20/2010	M	7,465	A	\$ 15.5	35,566	D
Coremark Common Stock	09/20/2010	S	500	D	\$ 30.02	35,066	D
Coremark Common Stock	09/20/2010	S	200	D	\$ 30.03	34,866	D
Coremark Common Stock	09/20/2010	S	400	D	\$ 30.04	34,466	D
Coremark Common Stock	09/20/2010	S	400	D	\$ 30.1	34,066	D
Coremark Common Stock	09/20/2010	S	251	D	\$ 30.1478	33,815	D
Coremark Common Stock	09/20/2010	S	100	D	\$ 30.16	33,715	D
Coremark Common Stock	09/20/2010	S	400	D	\$ 30.1725	33,315	D
Coremark Common	09/20/2010	S	200	D	\$ 30.18	33,115	D

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Stock

Coremark

Common 09/20/2010 S 400 D \$ 30.265 32,715 D
Stock

Coremark

Common 09/20/2010 S 264 D \$ 30.35 32,451 D
Stock

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

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(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. 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	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
04LTIP plan grtd 8-23-2004 NQ	\$ 15.5	09/17/2010		M	5,453	08/23/2005	08/23/2011	Coremark Common Stock	5,453
04LTIP plan grtd 8-23-2004 NQ	\$ 15.5	09/20/2010		M	7,465	08/23/2005	08/23/2011	Coremark Common Stock	7,465

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

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

SVP - Corporate
Development

Signatures

Amy Morgan,
POA

09/21/2010

__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).

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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