

McPherson Scott E  
 Form 4  
 September 16, 2010

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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)  
 09/14/2010

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

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 Ownership (Instr. 4)
				(A) or (D) Code V Amount (D) Price			
Coremark Common Stock	09/14/2010		S	100 D \$ 28.11	33,001	D	
Coremark Common Stock	09/14/2010		S	4 D \$ 28.12	32,997	D	
Coremark Common Stock	09/14/2010		S	300 D \$ 28.13	32,697	D	
	09/14/2010		S	100 D	32,597	D	

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Coremark Common Stock					\$ 28.1474		
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.1478	32,497	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.15	32,397	D
Coremark Common Stock	09/14/2010	S	300	D	\$ 28.1575	32,097	D
Coremark Common Stock	09/14/2010	S	300	D	\$ 28.16	31,797	D
Coremark Common Stock	09/14/2010	S	1,189	D	\$ 28.17	30,608	D
Coremark Common Stock	09/14/2010	S	400	D	\$ 28.18	30,208	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.19	30,108	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.1925	30,008	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.2	29,908	D
Coremark Common Stock	09/14/2010	S	400	D	\$ 28.21	29,508	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.215	29,408	D
Coremark Common Stock	09/14/2010	S	200	D	\$ 28.2175	29,208	D
Coremark Common Stock	09/14/2010	S	100	D	\$ 28.23	29,108	D
Coremark Common	09/14/2010	S	500	D	\$ 28.24	28,608	D

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Stock

Coremark

Common 09/14/2010 S 200 D \$ 28.255 28,408 D  
Stock

Coremark

Common 09/14/2010 S 200 D \$ 28.28 28,208 D  
Stock

Coremark

Common 09/14/2010 S 107 D \$ 28.29 28,101 D  
Stock

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. 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)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Beneficially (Instr. 3, 4, and 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## 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

09/16/2010

Date

\_\_Signature of  
Reporting Person

## 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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