McPherson Scott E Form 4 October 04, 2010

FORM 4

Check this box

if no longer

subject to

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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response...

SECURITIES Section 16. Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue.

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Last)

(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]

3. Date of Earliest Transaction

(Month/Day/Year) 09/30/2010

Director

Issuer

10% Owner Other (specify

Officer (give title below)

SVP - Corporate Development

5. Relationship of Reporting Person(s) to

(Check all applicable)

395 OYSTER POINT BLVD., **SUITE 415**

(Street)

(First)

(Middle)

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 Form filed by More than One Reporting

SOUTH SAN FRANCISCO, CA 94080

(City)	(State) (Z	Zip) Table	e I - Non-D	erivative	Secur	ities Acqu	iired, Disposed of	, or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or		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	09/30/2010		Code V M	Amount 720	(D)	Price \$ 0.01	33,171	D	
Coremark Common Stock	09/30/2010		M	812	A	\$ 0	33,983	D	
Coremark Common Stock	09/30/2010		F	560 (1)	D	\$ 30.96	33,423	D	
	09/30/2010		F	352 (2)	D		33,071	D	

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Coremark \$
Common 30.96
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. Transacti Code (Instr. 8)	onof		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	09/30/2010		M		720	01/01/2009	07/01/2017	Coremark Common Stock	720
Restricted Stock Units 07LTIP	\$ 0.01	09/30/2010		M		812	02/01/2010	01/21/2019	Coremark Common Stock	812

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 10/04/2010

Date

Reporting Owners 2

**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).
- (1) Shares withheld for taxes RSU vesting on 9/30/2010.
- (2) 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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