McPherson Scott E Form 4 July 01, 2010

FORM 4

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

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

(Last) (First) (Middle)

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

(Street)

2. Issuer Name and Ticker or Trading

Symbol

Core-Mark Holding Company, Inc.

[CORE]

3. Date of Earliest Transaction (Month/Day/Year) 06/30/2010

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

5. Relationship of Reporting Person(s) to

(Check all applicable)

SVP - Corporate Development

10% Owner _ Other (specify

OMB APPROVAL

3235-0287

January 31,

2005

0.5

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Number:

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response...

Estimated average

burden hours per

Issuer

below)

Director

Officer (give title

SOUTH SAN FRANCISCO, CA 94080

(City)	(State) (Z	Zip) Table	I - Non-Do	erivative S	Securi	ties Acq	uired, Disposed o	f, or Beneficial	ly 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 on(A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Coremark Common Stock			M	370	A	\$ 0.01	27,976	D	
Coremark Common Stock			M	721	A	\$ 0.01	28,697	D	
Coremark Common Stock			M	813	A	\$ 0.01	29,510	D	
	06/30/2010		F	761 <u>(1)</u>	D		28,749	D	

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Coremark	\$
Common	27.4
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)		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	06/30/2010		M	370	07/02/2008	07/01/2017	Coremark Common Stock	370
Restricted Stock Units 07LTIP	\$ 0.01	06/30/2010		M	721	01/01/2009	01/31/2018	Coremark Common Stock	721
Restricted Stock Units 07LTIP	\$ 0.01	06/30/2010		M	813	02/01/2010	01/21/2019	Coremark Common Stock	813

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				

Reporting Owners 2

Signatures

Amy Morgan, POA 07/01/2010

**Signature of Date
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 on RSU vesting reported in Table 1 and on Performance RSU vesting previously reported in Table 1.

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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