McPherson Scott E

Form 4/A

October 01, 2009

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

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

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

OMB APPROVAL	
OMB Number:	3235-0287
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(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) _____ Director _____ 10% Owner __X__ Officer (give title _____ Other (specify below) below) SVP-U.S. Distribution
(Last) (First) (Middle)	3. Date of Earliest Transaction (Month/Day/Year) 03/31/2009	
395 OYSTER POINT BLVD., SUITE 415		
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year) 04/03/2009	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person ___ Form filed by More than One Reporting Person
SOUTH SAN FRANCISCO, CA 94080		
(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)
			Code	V	Amount	(A) or (D)	Price			
Coremark Common Stock	04/03/2009		M		0 (1)	A	$ 0	7,724	D	
Coremark Common Stock	04/03/2009		F		63 (2)	D	$ 18.22	7,661	D	

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form

SEC 1474 (9-02)

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displays a currently valid OMB control number.

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. De Se (In
								Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
				Code	V	(A)	(D)					
Restricted Stock Units 07LTIP	$ 0	03/31/2009		M			0	01/21/2009	07/01/2017	Coremark Common Stock	0	

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-U.S. Distribution	

Signatures

/s/ Amy Morgan, POA	10/01/2009
**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).

(1) Vesting of 230 shares was already reported on previous Form 4.

(2) Shares withheld for taxes on vesting of performance shares previously reported in Table I.

Remarks:
Form amended to accurately reflect actual transactions that occurred on 3/31/2009 & 4/3/2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Explanation of Responses: