McPherson Scott E Form 4 January 23, 2012

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

if no longer subject to Section 16. Form 4 or Form 5

Check this box

SECURITIES

obligations may continue. See Instruction 1(b).

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)

(Last)

1. Name and Address of Reporting Person *

McPherson Scott E

(First) (Middle)

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

(Street)

(State)

Filed(Month/Day/Year)

2. Issuer Name and Ticker or Trading Symbol

Core-Mark Holding Company, Inc.

[CORE] 3. Date of Earliest Transaction

(Month/Day/Year) 01/19/2012

4. If Amendment, Date Original

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

OMB

Number:

Expires:

response...

Estimated average

burden hours per

Issuer

below)

Director

Officer (give title

SOUTH SAN FRANCISCO, CA 94080

(City)	(State) (2	Table	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. 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			Code V	Amount	(D)	Price	(Ilisu: 5 aliu 4)			
Common Stock	01/19/2012		A	2,250 (1)	A	\$ 0.01	24,435	D		
Coremark Common Stock	01/19/2012		M	2,250	A	\$ 0.01	26,685	D		
Coremark Common Stock	01/19/2012		A	3,125 (2)	A	\$ 0.01	29,810	D		
	01/19/2012		F	691 <u>(3)</u>	D		29,119	D		

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Coremark \$
Common 39.81

Stock

Coremark
Common 01/19/2012 F 202 (4) D \$ 28,917 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 3. Transaction Date 3A. Deemed 6. Date Exercisable and 7. Title and Amount of 5. Number Derivative Conversion (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date **Underlying Securities** Security or Exercise Code Securities (Month/Day/Year) (Instr. 3 and 4) (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired Derivative (A) or Security Disposed of (D) (Instr. 3, 4, and 5) Amount or Date Expiration Title Number Date Exercisable of

Code V (A)

(D)

SVP - Corporate

Development

Shares

2,250

Restricted

Stock Units \$ 0.01 01/19/2012 M 2,250 01/19/2011 01/19/2018 Common

10LTIP Stock

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

SOUTH SAN FRANCISCO, CA 94080

Signatures

Shawn Levitt, 01/23/2012 POA

**Signature of Date Reporting Person

Reporting Owners 2

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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) 2010 Long Term Incentive Plan Performance Award. Performance criteria met, 33% vested on 01/19/2012. Remainder vests quarterly over the next two years beginning 03/31/2012.
- (2) 2010 Long Term Incentive Plan Performance Award. Special one-time restricted stock award for extraordinary performance. Vests1/3 on 1/19/2012 and the remainder vests quarterly over next 2 years.
- (3) Shares withheld for taxes on RSU Vesting
- (4) Shares withheld for taxes on vested portion of Performance RSU 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.