McPherson Scott E Form 4/A October 01, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

Number:

3235-0287

Expires:

January 31, 2005

0.5

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response...

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

Check this box

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

See Instruction

1(b).

(Last)

(City)

(Print or Type Responses)

may continue.

1. Name and Address of Reporting Person * McPherson Scott E

2. Issuer Name and Ticker or Trading Symbol

Core-Mark Holding Company, Inc.

[CORE]

(First) (Middle)

> (Month/Day/Year) 06/30/2009

3. Date of Earliest Transaction

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

10% Owner

Other (specify

395 OYSTER POINT BLVD., SUITE 415

> (Street) 4. If Amendment, Date Original

> > Filed(Month/Day/Year)

07/01/2009

below) SVP-U.S. Distribution

6. Individual or Joint/Group Filing(Check Applicable Line)

Director

X_ Officer (give title

X Form filed by One Reporting Person Form filed by More than One Reporting

SOUTH SAN FRANCISCO, CA 94080

(State)

(Zip)

| (City) | (State) (Zip | Table | I - Non-De | erivative S | Securi | ities Acqu | iired, Disposed of | , or Beneficiall | y Owned |
|--------------------------------------|--------------|-------------------------------------------------------------|----------------------------------------|--------------------------------|------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|
| 1.Title of Security (Instr. 3) | a | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactio Code (Instr. 8) | 4. Securin(A) or Di (Instr. 3, | ispose 4 and (A) or | d of (D) | 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 | 06/30/2009 | | M | 0 (1) | D | \$ 0 | 7,661 | D | |
| Coremark Common Stock | 06/30/2009 | | F | 193 (2) | D | \$ 26.06 | 7,468 | D | |

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form

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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 | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if | 4. | 5. onNumber | 6. Date Exercise Expiration Date | | 7. Title and A Underlying S | |
|---------------------------|------------------------------------|--------------------------------------|-------------------------------|------------|-------------------------------------------------------------------------------------------------|----------------------------------|--------------------|-----------------------------|----------------------------------------|
| Security | or Exercise | (Month/Day/Tear) | any | Code | of | (Month/Day/Y | | (Instr. 3 and 4 | |
| (Instr. 3) | Price of Derivative Security | | (Month/Day/Year) | (Instr. 8) | Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | | | | |
| | | | | Code V | , | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| 07LTIP Performance Shares | \$ 0 | 06/30/2009 | | M | 0 | 07/02/2008 | 07/01/2017 | Coremark Common Stock | 0 |

Reporting Owners

| Reporting Owner Name / Address | Keiationsinps | | | | | |
|-----------------------------------------------------------------------------------------|---------------|-----------|--------------------------|-------|--|--|
| | 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

**Signature of Reporting Person

10/01/2009

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 6/30/2009.

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

Reporting Owners 2

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