WALSH J MICHAEL

Check this box

if no longer

subject to

Section 16.

Form 4

February 18, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

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response...

Form 4 or Form 5 obligations may continue.

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

1(b).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * WALSH J MICHAEL

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

below)

Symbol

Core-Mark Holding Company, Inc.

(Check all applicable)

[CORE]

(Last)

3. Date of Earliest Transaction

Director Officer (give title

10% Owner Other (specify

395 OYSTER POINT BLVD.,

(First)

(Street)

(Middle)

SUITE 415

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

President and CEO

Filed(Month/Day/Year)

(Month/Day/Year)

02/12/2009

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 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

3. (Month/Day/Year)

4. Securities Acquired 5. Amount of Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) or Code V Amount (D)

Transaction(s) (Instr. 3 and 4)

Coremark

Common 02/12/2009 Stock

3,103 A (1)

0.01

Price

15,327

D

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

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SEC 1474 (9-02)

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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. Transacti | 5. orNumber | 6. Date Exerc Expiration D | | 7. Title Amount | | 8. Price of Derivative | 9. Nu Deriv |
|------------------------|---|--------------------------------------|-------------------------------|-----------------|----------------|-------------------------------|--------------------|--|--|------------------------|---|
| Security (Instr. 3) | or Exercise Price of Derivative Security | (| any (Month/Day/Year) | Code (Instr. 8) | of | (Month/Day/Year) | | Underlying Securities (Instr. 3 and 4) | | Security (Instr. 5) | Secur Bene Owne Follo Repo Trans (Instr |
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title N | Amount or Number of Shares | | |

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

WALSH J MICHAEL 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080

President and CEO

Signatures

Amy Morgan -02/18/2009 **POA**

**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).
- 2007 Long Term Incentive Plan Performance Award. Performance criteria met, 33% vested on 01/21/09. Remainder vests quarterly over the next two years beginning 03/31/09.

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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