Core-Mark Holding Company, Inc.

Form 4

January 25, 2016

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

2005 Estimated average burden hours per response... 0.5

OMB APPROVAL

3235-0287

January 31,

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Number:

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Form 4 or Form 5 obligations may continue. See Instruction

Check this box

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Section 16.

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)

| 1. Name and Address of Reporting Person * Walsh Christopher L | | | 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) | | |
|---|---------|----------|---|--|--|--|
| (Last) 395 OYSTER SUITE 415 | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 01/21/2016 | Director 10% Owner Officer (give title Other (specify below) Senior VP-US Distribution | | |
| SOUTH SAN FRANCISCO | |) | 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 Person | | |

| (City) | (State) (Z | Zip) Table | e I - Non-D | erivative | Secur | ities Acqu | ired, Disposed of | f, or Beneficial | ly Owned |
|--------------------------------------|---|---|-------------|---|-------|--|--|---|----------|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | ansaction Date 2A. Deemed hth/Day/Year) Execution Date, if any (Month/Day/Year) | | 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) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | Code V | Amount | | Price | (Instr. 3 and 4) | | |
| Coremark Common Stock | 01/21/2016 | | A | 8,347 (1) | A | \$ 0.01 | 78,010 | D | |
| Coremark Common Stock | 01/21/2016 | | M | 1,466 | A | \$ 0.01 | 79,476 | D | |
| Coremark Common Stock | 01/21/2016 | | F | 604 (2) | D | \$ 75.34 | 78,872 | D | |
| | 01/21/2016 | | F | | D | | 77,420 | D | |

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Coremark 1.452 (3) 75.34 Common 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 | 2. | 3. Transaction Date | | 4. | 5. Number | 6. Date Exercis | | 7. Title and A | | |
|------------------------------|---|---------------------|-------------------------|---|-----------------|---------------------|--------------------|-----------------------------|--|---|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | | onof Derivative | * | | Underlying S | | |
| Security (Instr. 3) | or Exercise Price of Derivative Security | | any (Month/Day/Year) | Code Securities (Instr. 8) Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | | (Month/Day/Year) | | (Instr. 3 and 4) | | 1 |
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| 2010 LTIP RSU GRANT | \$ 0.01 | 01/21/2016 | | M | 1,466 | 01/21/2016 | 01/21/2022 | Coremark Common Stock | 1,466 | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|------------------------------|-------|--|--|--|
| | Director | 10% Owner | Officer | Other | | | |
| Walsh Christopher L 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080 | | | Senior VP-US Distribution | | | | |

Signatures

2015

Chris Miller,POA 01/25/2016 **Signature of Date Reporting Person

2 Reporting Owners

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) Performance Shares earned upon the achievement of certain company financial goals. Shares vest; 1/3 on Jan. 21, 2016, 1/3 on January 1, 2017 and 1/3 on January 1, 2018.
- (2) Shares withheld for taxes on RSU Vesting
- (3) Shares withheld for taxes on Performance RSU Vesting

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.