

Murray Christopher M  
 Form 4  
 April 05, 2010

**FORM 4**

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

OMB APPROVAL

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

**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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Murray Christopher M

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) (First) (Middle)  
 395 OYSTER POINT BLVD.,  
 SUITE 415  
 (Street)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 03/31/2010

\_\_\_\_ Director  
 \_\_\_\_ Officer (give title below)  
 \_\_\_\_ 10% Owner  
 \_\_\_\_ Other (specify below)  
 SVP - U.S. Distribution

SOUTH SAN  
 FRANCISCO, CA 94080

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(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 Ownership (Instr. 4)	
			Code	V	Amount	(A) or (D)	Price	
Coremark Common Stock	03/31/2010		M		370	A	\$ 0.01 23,148	D
Coremark Common Stock	03/31/2010		M		720	A	\$ 0.01 23,868	D
Coremark Common Stock	03/31/2010		M		812	A	\$ 0.01 24,680	D
	03/31/2010		F		98 <sup>(1)</sup>	D	24,582	D

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Coremark Common Stock						\$ 30.61		
Coremark Common Stock	03/31/2010		F	191 <sup>(2)</sup>	D	\$ 30.61	24,391	D
Coremark Common Stock	03/31/2010		F	69 <sup>(3)</sup>	D	\$ 30.61	24,322	D
Coremark Common Stock	03/31/2010		F	215 <sup>(4)</sup>	D	\$ 30.61	24,107	D
Coremark Common Stock	03/31/2010		F	188 <sup>(5)</sup>	D	\$ 30.61	23,919	D

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 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. Amount or Number of Shares
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title
Restricted Stock Units 07LTIP	\$ 0.01	03/31/2010		M	370	07/02/2008 07/01/2017	Coremark Common Stock	370
Restricted Stock Units 07LTIP	\$ 0.01	03/31/2010		M	720	01/01/2009 01/31/2018	Coremark Common Stock	720
	\$ 0.01	03/31/2010		M	812	02/01/2010 01/21/2019		812

Restricted  
 Stock  
 Units  
 07LTIP

Coremark  
 Common  
 Stock

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Murray Christopher M 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080			SVP - U.S. Distribution	

## Signatures

Amy Morgan,  
 POA

04/05/2010

\_\_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) Shares withheld for taxes on RSU vesting
- (2) Shares withheld for taxes on RSU vesting
- (3) Shares withheld for taxes on Performance RSU Vesting previously reported in Table I
- (4) Shares withheld for taxes on RSU vesting
- (5) Shares withheld for taxes on Performance RSU Vesting previously 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.