

Murray Christopher M  
 Form 4  
 October 01, 2009

**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)  
 01/02/2008

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 SVP of Marketing

SOUTH SAN FRANCISCO, CA 94080  
 (City) (State) (Zip)

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

**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)	
				(A) or (D)	Price			
				Code	V	Amount		
Coremark Common Stock	01/02/2008		M	1,833	A	\$ 0	6,734	D
Coremark Common Stock	02/01/2008		M	257	A	\$ 0	6,991	D
Coremark Common Stock	04/02/2008		M	458	A	\$ 0	7,449	D
	07/02/2008		M	1,121	A	\$ 0	8,570	D

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Coremark Common Stock								
Coremark Common Stock	09/01/2008		M	375	A	\$ 0	8,945	D
Coremark Common Stock	09/30/2008		M	212	A	\$ 0	9,157	D
Coremark Common Stock	10/02/2008		M	263	A	\$ 0	9,420	D
Coremark Common Stock	01/01/2009		M	2,881	A	\$ 0	12,301	D
Coremark Common Stock	01/01/2009		F	1,242	D	\$ 21.52	11,059	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)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
Restricted Stock Units 04LTIP	\$ 0	01/02/2008		M	1,833	08/23/2005	08/23/2014	Coremark Common Stock	1,833
Restricted Stock Units	\$ 0	02/01/2008		M	257	02/08/2006	02/08/2015	Coremark Common Stock	257

05LTIP									
Restricted Stock Units	\$ 0	04/02/2008	M	458	08/23/2005	08/23/2014	Coremark Common Stock	458	
04LTIP									
Restricted Stock Units	\$ 0	07/02/2008	M	264	08/23/2005	08/23/2014	Coremark Common Stock	264	
04LTIP									
Restricted Stock Units	\$ 0	07/02/2008	M	857	07/02/2008	07/01/2017	Coremark Common Stock	857	
07LTIP									
Restricted Stock Units	\$ 0	09/01/2008	M	375	08/23/2005	08/23/2014	Coremark Common Stock	375	
04LTIP									
Restricted Stock Units	\$ 0	09/30/2008	M	212	07/02/2008	07/01/2017	Coremark Common Stock	212	
07LTIP									
Restricted Stock Units	\$ 0	10/02/2008	M	263	08/23/2005	08/23/2014	Coremark Common Stock	263	
04LTIP									
Restricted Stock Units	\$ 0	01/01/2009	M	2,881	01/01/2009	07/01/2017	Coremark Common Stock	2,881	
07LTIP									

## 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 of Marketing	

## Signatures

/s/ Amy  
Morgan, POA

10/01/2009

\*\*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).

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

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