

Walsh Christopher L
 Form 4
 August 20, 2012

FORM 4

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

OMB APPROVAL

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

3. Date of Earliest Transaction
 (Month/Day/Year)
 08/16/2012

____ Director
 ____ Officer (give title below)
 ____ 10% Owner
 ____ Other (specify below)
 Senior VP-US Distribution

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) Code V Amount (D) Price			
Coremark Common Stock	08/16/2012		M	7,592 A \$ 25.81	54,367	D	
Coremark Common Stock	08/16/2012		S	7,592 D \$ 47.5259	46,775	D	
Coremark Common Stock	08/17/2012		M	4,186 A \$ 36.96	50,961	D	
	08/17/2012		M	1,053 A \$ 25.81	52,014	D	

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Coremark
Common
Stock

Coremark Common Stock	08/17/2012		S	5,239	D	\$ 47.5284	46,775	D
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Coremark
Common
Stock

Coremark Common Stock	08/20/2012		M	250	A	\$ 36.96	47,025	D
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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	Amount or Number of Shares
07LTIP Stock Option	\$ 25.81	08/16/2012		M	7,592	01/31/2008 01/31/2015	Coremark Common Stock	7,592	
07LTIP Stock Option	\$ 36.96	08/17/2012		M	4,186	07/02/2008 07/01/2017	Coremark Common Stock	4,186	
07LTIP Stock Option	\$ 25.81	08/17/2012		M	1,053	07/02/2008 07/01/2017	Coremark Common Stock	1,053	
07LTIP Stock Option	\$ 36.96	08/20/2012		M	250	07/02/2008 07/01/2017	Coremark Common Stock	250	

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

Shawn Levitt,
POA

08/20/2012

__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. 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.