

Rolheiser Eric
 Form 4
 January 05, 2010

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 *
 Rolheiser Eric

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)

3. Date of Earliest Transaction (Month/Day/Year)
 12/31/2009

____ Director _____ 10% Owner
 ____ Officer (give title below) ____ Other (specify below)
 President - Canada Operations

395 OYSTER POINT BLVD.,
 SUITE 415

(Street)

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

SOUTH SAN FRANCISCO, CA 94080

(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)	
				(A) or (D)	Price			
				Code	V	Amount		
Coremark Common Stock	12/31/2009		M	150	A	\$ 0	1,515	D
Coremark Common Stock	12/31/2009		M	208	A	\$ 0	1,723	D
Coremark Common Stock	12/31/2009		S	358 ⁽¹⁾	D	\$ 32.92	1,365	D
	12/31/2009		F	50 ⁽²⁾	D		1,315	D

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Coremark Common Stock						\$ 32.96		
Coremark Common Stock	01/02/2010		M	150	A	\$ 0	1,465	D
Coremark Common Stock	01/04/2010		S	150 ⁽³⁾	D	\$ 32.97	1,315	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	12/31/2009		M	150	07/02/2008 07/02/2017	Coremark Common Stock	150
Restricted Stock Units 07LTIP	\$ 0	12/31/2009		M	208	01/01/2009 01/31/2018	Coremark Common Stock	208
Restricted Stock Units 05 LTIP	\$ 0	01/02/2010		M	150	01/02/2010 01/02/2014	Coremark Common Stock	150

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rolheiser Eric 395 OYSTER POINT BLVD., SUITE 415 SOUTH SAN FRANCISCO, CA 94080			President - Canada Operations	

Signatures

Amy Morgan,
POA

01/05/2010

__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) Sold per Sec. 10b5-1 program
- (2) Shares withheld to cover taxes on performance share lapse previously reported in Table 1.
- (3) Sold per Sec. 10b5-1 program

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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