Rolheiser Eric Form 4 January 05, 2012

FORM 4

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

Check this box if no longer subject to Section 16.

Form 4 or

obligations

Form 5

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

may continue. See Instruction

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 * Rolheiser Eric

2. Issuer Name and Ticker or Trading Symbol

Core-Mark Holding Company, Inc.

[CORE]

(Last) (First) (Middle)

395 OYSTER POINT BLVD., **SUITE 415**

(Street)

Filed(Month/Day/Year)

(Month/Day/Year)

12/31/2011

3. Date of Earliest Transaction

4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

Applicable Line)

Director

Officer (give title

X Form filed by One Reporting Person Form filed by More than One Reporting

5. Relationship of Reporting Person(s) to

(Check all applicable)

President - Canada Operations

10% Owner Other (specify

OMB APPROVAL

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below)

SOUTH SAN FRANCISCO, CA 94080

(City)	(State)	Zip) Table	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. Transactic Code (Instr. 8)	4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price		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 Indirect Beneficial Ownership (Instr. 4)		
Coremark Common Stock	12/31/2011	01/03/2012	M	334	A	\$ 0.01	2,167	D		
Coremark Common Stock	12/31/2011	01/03/2012	M	458	A	\$ 0.01	2,625	D		
Coremark Common Stock	12/31/2011	01/03/2012	F	348 (1)	D	\$ 39.25	2,277	D		
	12/31/2011	01/03/2012	F	127 (2)	D		2,150	D		

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Coremark	\$
Common	39.25
Stock	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. Transacti Code (Instr. 8)	onof		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Restricted Stock Units 07LTIP	\$ 0.01	12/31/2011	01/03/2012	M		334	02/01/2010	01/20/2016	Coremark Common Stock	334
Restricted Stock Units 07LTIP	\$ 0.01	12/31/2011	01/03/2012	M		458	02/01/2011	01/20/2017	Coremark Common Stock	458

Reporting Owners

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

Signatures

Shawn Levitt, 01/05/2012 **POA**

Date

Reporting Owners 2 **Signature of Reporting Person

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 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.

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