Core-Mark Holding Company, Inc.

Form 4

January 25, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287 Number:

January 31, Expires: 2005

OMB APPROVAL

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subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box

if no longer

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

1(b).

(City)

(State)

(Zip)

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person ** Rolheiser Eric			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			Core-Mark Holding Company, Inc. [CORE]	(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	Director 10% Owner Officer (give title Other (specify		
395 OYSTER POINT BLVD., SUITE 415			01/21/2016	below) President - Canada Operations		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person		
SOUTH SAN				Form filed by More than One Reporting Person		
FRANCISCO.	CA 94080			20.00.		

(City)	(State) (A	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)	Transaction(A) or Dis Code (Instr. 3, 4 (Instr. 8)		4 and 5)		5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)			
Coremark Common Stock	01/21/2016		A	7,524 (1)	A	\$ 0.01	12,127	D		
Coremark Common Stock	01/21/2016		M	1,100	A	\$ 0.01	13,227	D		
Coremark Common Stock	01/21/2016		F	504 (2)	D	\$ 75.34	12,723	D		
	01/21/2016		F		D		11,574	D		

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Coremark 1,149 (3) 75.34 Common Stock

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	2.	3. Transaction Date	3A. Deemed	4. 5. Number		6. Date Exercisable and		7. Title and Amount of		
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onof De	rivative	ive Expiration Date		Underlying Securities	
Security	or Exercise		any	Code	Securi	ities	(Month/Day/Year)		(Instr. 3 and 4)	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acqui	ired				
	Derivative				(A) or	•				
	Security				Dispo	sed of				
					(D)					
					(Instr. 3, 4,					
					and 5)					
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
2010										
2010									C 1	
LTIP									Coremark	
RSU	\$ 0.01	01/21/2016		M		1,100	01/21/2015	01/21/2022	Common	1,100
GRANT									Stock	

Reporting Owners

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

Signatures

2015

Chris Miller,POA 01/25/2016 Date **Signature of Reporting Person

Reporting Owners 2

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) Performance Shares earned upon the achievement of certain company financial goals. Shares vest; 1/3 on Jan. 21, 2016, 1/3 on January 1, 2017 and 1/3 on January 1, 2018.
- (2) Shares withheld for taxes on RSU Vesting
- (3) Shares withheld for taxes on Performance RSU Vesting

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.