

Davis Gary N.
Form 4
July 28, 2010

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 *
Davis Gary N.

(Last) (First) (Middle)

ATRIA CORPORATE CENTER,
SUITE E490, 3033 CAMPUS
DRIVE

(Street)

PLYMOUTH, MN 55441

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
MOSAIC CO [MOS]

3. Date of Earliest Transaction
(Month/Day/Year)
07/27/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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)	Amount (D) Price		
Common Stock					17,084	D	

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)

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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)			
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 15.45							(1)	08/04/2016	Common Stock	12,618
Stock Option (Right to Buy)	\$ 40.03							(2)	08/02/2017	Common Stock	10,429
Restricted Stock Units	\$ 0 (3)							08/02/2010	(4)	Common Stock	2,498
Stock Option (Right to Buy)	\$ 127.21							(5)	07/31/2018	Common Stock	2,195
Restricted Stock Units	\$ 0 (3)							07/31/2011	(4)	Common Stock	786
Stock Option (Right to Buy)	\$ 52.72							(6)	07/27/2019	Common Stock	4,507
Restricted Stock Units	\$ 0 (3)							07/27/2012	(4)	Common Stock	2,845
Stock Option (Right to Buy)	\$ 44.93	07/27/2010		A		10,130		(7)	07/27/2020	Common Stock	10,130
Restricted Stock Units	\$ 0 (3)	07/27/2010		A		5,564		07/27/2013	(4)	Common Stock	5,564

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Davis Gary N. ATRIA CORPORATE CENTER, SUITE E490 3033 CAMPUS DRIVE PLYMOUTH, MN 55441			VP - Phosphate Operations	

Signatures

Richard L. Mack, Attorney-in-Fact for Gary N.
Davis 07/28/2010

__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) This Stock Option is 100% exercisable.
- (2) Grant Date 08/02/2007; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (3) One-for-One
- (4) Not Applicable
- (5) Grant Date 07/31/2008; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (6) Grant Date 07/27/2009; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.
- (7) Grant Date 07/27/2010; option becomes exercisable in three equal installments commencing on the first anniversary of the grant date and on each anniversary thereafter.

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.