Davis Gary N. Form 4 August 04, 2010

FORM 4

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

Check this box if no longer subject to Section 16.

SECURITIES

Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Davis Gary N.

2. Issuer Name and Ticker or Trading Symbol

MOSAIC CO [MOS]

(Last) (First) (Middle) 3. Date of Earliest Transaction

ATRIA CORPORATE CENTER, SUITE E490, 3033 CAMPUS **DRIVE**

(Street)

(State)

(Zip)

(Month/Day/Year) 08/02/2010

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

5. Relationship of Reporting Person(s) to

(Check all applicable)

VP - Phosphate Operations

10% Owner

Other (specify

OMB APPROVAL

Estimated average

burden hours per

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Applicable Line)

Director

X_ Officer (give title

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Issuer

below)

ΡI	YN	ΛOΙ	ITH	MN	55441
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(City)

		Table 1 - Non-Delivative Securities Acquired, Disposed of, of Deficiencially Owned							
1.Title of	2. Transaction Date		3.	4. Securi		•	5. Amount of	6. Ownership	
Security	(Month/Day/Year)	Execution Date, if	Transaction(A) or Disposed of (D)			d of (D)	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	(Instr. 3, 4 and 5)		Beneficially	(D) or	Beneficial	
		(Month/Day/Year)	(Instr. 8)				Owned	Indirect (I)	Ownership
							Following	(Instr. 4)	(Instr. 4)
							Reported	,	
					(A)		Transaction(s)		
					or		(Instr. 3 and 4)		
			Code V	Amount	(D)	Price	(IIIstr. 5 and 4)		
Common Stock	08/02/2010		M	2,498	A	\$0	19,582	D	
Common Stock	08/02/2010		F <u>(7)</u>	661	D	\$ 49.39	18,921	D	

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

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$\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (\emph{e.g.}, puts, calls, warrants, options, convertible securities) \\ \end{tabular}$

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)	Secu Acq (A) (Disp (D)	urities uired or posed of tr. 3, 4,	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						<u>(1)</u>	08/04/2016	Common Stock	12,618
Stock Option (Right to Buy)	\$ 40.03						<u>(1)</u>	08/02/2017	Common Stock	10,429
Restricted Stock Units	\$ 0 (2)	08/02/2010		M		2,498	08/02/2010	(3)	Common Stock	2,498
Stock Option (Right to Buy)	\$ 127.21						<u>(4)</u>	07/31/2018	Common Stock	2,195
Restricted Stock Units	\$ 0 (2)						07/31/2011	(3)	Common Stock	786
Stock Option (Right to Buy)	\$ 52.72						<u>(5)</u>	07/27/2019	Common Stock	4,507
Restricted Stock Units	\$ 0 (2)						07/27/2012	(3)	Common Stock	2,845
Stock Option (Right to Buy)	\$ 44.93						<u>(6)</u>	07/27/2020	Common Stock	10,130
Restricted Stock Units	\$ 0 (2)						07/27/2013	(3)	Common Stock	5,564

Reporting Owners

Reporting Owner Name / Address	Relationships						
1	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

08/04/2010

**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) One-for-One
- (3) Not Applicable
- (4) 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.
- (5) 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.
- (6) 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.
- (7) Shares withheld to cover tax liability incurred as a result of vesting of Restricted Stock Units.

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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