MOSAIC CO Form 4 August 08, 2006

FORM 4

Form 5

1(b).

obligations

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

Check this box if no longer subject to Section 16. Form 4 or

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

OMB APPROVAL

OMB 3235-0287 Number:

Expires:

January 31, 2005

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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 may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1. Name and Address of Reporting Person * WESSLING DAVID W			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			MOSAIC CO [MOS]	(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction			
			(Month/Day/Year)	Director 10% Owner		
3033 CAMPUS DRIVE, SUITE E490			08/04/2006	_X_ Officer (give title Other (specif		
				below) below) Vice President		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line)		
PLYMOUTI	H, MN 5544	1		_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
(City)	(State)	(Zip)	Table I Non Desirative Securities	Agguined Disposed of an Panaficially Own		

(- 3)	(******)	1 abie	: 1 - Non-De	erivative S	ecurities Ac	quirea, Disposea	oi, or Beneficia	ny Ownea
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securit	ies	5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired	(A) or	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	Disposed	of (D)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4	4 and 5)	Owned	Indirect (I)	Ownership
						Following	(Instr. 4)	(Instr. 4)
					(4)	Reported		
					(A)	Transaction(s)		
			Code V	A	Or (D) Duiss	(Instr. 3 and 4)		
			Code V	Amount	(D) Price			
Common						0	D	
Stock						O	D	

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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. Transactio Code (Instr. 8)	5. Number of orDerivative 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 Underlying Securition (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha
Restricted Stock Units	\$ 0					08/01/2008	<u>(1)</u>	Common Stock	12,3
Stock Option (right to buy)	\$ 17.29					08/01/2006(2)	08/01/2015	Common Stock	37,1
Restricted Stock Units	\$ 0	08/04/2006		A	10,515	08/04/2009	<u>(1)</u>	Common Stock	10,5
Stock Option (right to buy)	\$ 15.45	08/04/2006		A	31,546	08/04/2007(3)	08/04/2016	Common Stock	31,5

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
WESSLING DAVID W 3033 CAMPUS DRIVE SUITE E490 PLYMOUTH, MN 55441			Vice President				

Signatures

Richard L. Mack, Attorney in fact for David W.
Wessling 08/08/2006

**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) Not applicable.
- (2) Vests 33.33% on 8/1/2006, 8/1/2007 and 8/1/2008.
- (3) Vests 33.33% on 8/4/2007, 8/4/2008 and 8/4/2009.

Reporting Owners 2

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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.