MOSAIC CO Form 4 February 02, 2005

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

Number:

3235-0287

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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

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * PERTZ DOUGLAS A			2. Issuer Name and Ticker or Trading Symbol MOSAIC CO [MOS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (First) (Middle) 100 SOUTH SAUNDERS ROAD, SUITE 300		(Middle)	3. Date of Earliest Transaction	(Choon an apphoacie)		
		S	(Month/Day/Year) 01/31/2005	_X_ Director 10% Owner Officer (give title below) Other (specify below)		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
I AKE FORE	ST II 6004	L 5	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting		
LAKE FOREST, IL 60045				Person		

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative (Securi	ities Acqu	ired, Disposed of	, or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securit or(A) or Dis (Instr. 3,	sposed	of (D)	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)
Common Stock	01/31/2005		Code V S	Amount 20,000	(D)	Price \$ 16.12	395,304.52	D	
Common Stock	01/31/2005		S	12,500	D	\$ 16.25	382,804.52	D	
Common Stock	01/31/2005		S	7,500	D	\$ 16.23	375,304.52	D	
Common Stock	01/31/2005		S	6,000	D	\$ 16.21	369,304.52	D	
Common Stock	01/31/2005		S	70,537	D	\$ 16.5	298,767.52	D	

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Common Stock	01/31/2005	S	15,900	D	\$ 16.55	282,867.52	D
Common Stock	01/31/2005	S	8,000	D	\$ 16.52	274,867.52	D

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

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SEC 1474

(9-02)

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

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)	of		e	7. Title and A Underlying S (Instr. 3 and A	ecurities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 18.1875					10/22/2004	08/28/2008	Common Stock	320,000
Stock Option (right to buy)	\$ 18.1875					10/22/2004	08/28/2008	Common Stock	180,000
Stock Option (right to buy)	\$ 14.3125					10/22/2004	10/01/2009	Common Stock	275,000
Stock Option (right to buy)	\$ 15.0312					10/22/2004	02/22/2010	Common Stock	254,000
Stock Option (right to buy)	\$ 15.0625					10/22/2004	03/30/2010	Common Stock	124,040
	\$ 13.55					10/22/2004	02/28/2011		325,000

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Stock Option (right to buy)				Common Stock	
Stock Option (right to buy)	\$ 9.65	10/22/2004	07/10/2011	Common Stock	175,000
Stock Option (right to buy)	\$ 12.99	10/22/2004	01/02/2012	Common Stock	440,000
Stock Option (right to buy)	\$ 10.76	10/22/2004	01/02/2013	Common Stock	310,000
Stock Option (right to buy)	\$ 10.19	10/22/2004	01/02/2014	Common Stock	445,000
Grant of Restricted Stock Units	\$ 0	11/30/2007	<u>(1)</u>	Common Stock	3,452

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
PERTZ DOUGLAS A 100 SOUTH SAUNDERS ROAD SUITE 300 LAKE FOREST, IL 60045	X					
0!						

Signatures

s/Richard L.

Mack

**Signature of Reporting Person

02/01/2005

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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 3

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