BRAUSEN ANTHONY T

Form 4

October 10, 2006

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

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response...

if no longer subject to Section 16. Form 4 or Form 5

Check this box

obligations may continue. See Instruction

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).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * **BRAUSEN ANTHONY T**

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

MOSAIC CO [MOS]

(Middle)

3. Date of Earliest Transaction

(Check all applicable) 10% Owner

3033 CAMPUS DRIVE, SUITE

(First)

(Street)

(Month/Day/Year) 10/06/2006

Director Other (specify X_ Officer (give title below) below)

E490

Vice President -Finance 6. Individual or Joint/Group Filing(Check

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

Applicable Line) _X_ Form filed by One Reporting Person

Form filed by More than One Reporting

(Instr. 4)

Person

PLYMOUTH, MN 55441

(City) (State) (Zip)

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

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (T)

(Instr. 4)

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

(A)

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)

1. Title of Derivative Security

Conversion or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number Transaction of Derivative Expiration Date Code Securities

6. Date Exercisable and (Month/Day/Year)

7. Title and Amount of Underlying Securities (Instr. 3 and 4)

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	Acquired (A) or Disposed (D) (Instr. 3, and 5)	d of				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amoun or Number of Share
Stock Option (Right to Buy)	\$ 16.03							02/27/2007(1)	02/27/2016	Common Stock	15,00
Restricted Stock Units	\$ 0 (4)							08/04/2009	<u>(2)</u>	Common Stock	6,572
Stock Option (Right to Buy)	\$ 15.45							08/04/2007(3)	08/04/2016	Common Stock	19,71
Restricted Stock Units	\$ 0 (4)	10/06/2006		A		1,403		10/06/2009	<u>(2)</u>	Common Stock	1,403

Reporting Owners

Reporting Owner Name / Address	Relationships							
reporting owner runner runners	Director	10% Owner	Officer	Other				
BRAUSEN ANTHONY T 3033 CAMPUS DRIVE SUITE E490			Vice President -Finance					

Signatures

PLYMOUTH, MN 55441

/s/ Richard L. Mack, Attorney-in-Fact for Anthony T.
Brausen 10/10/2006

**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) Exercisable as to 4,999 shares on 2/27/2007, 5,000 shares on 2/27/2008 and 5,001 shares exercisable on 2/27/2009.
- (2) Not applicable
- (3) Vests 33.33% on 8/4/2007, 8/4/2008 and 8/4/2009.
- (4) one-for-one

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 2

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