Snively David F Form 4 May 15, 2013

FORM 4

Check this box

if no longer

subject to

Section 16.

Form 4 or

obligations

may continue.

See Instruction

Form 5

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

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

30(h) of the Investment Company Act of 1940

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

1(b).

Stock

Stock

Stock

Common

Common

05/13/2013

05/13/2013

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Snively David F Issuer Symbol MONSANTO CO /NEW/ [MON] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner _X__ Officer (give title Other (specify 800 N. LINDBERGH BLVD. 05/13/2013 below) EVP, Secy & Gen. Counsel (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting ST. LOUIS, MO 63167

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) or 5. Amount of 7. Nature Security (Month/Day/Year) Execution Date, if TransactionDisposed of (D) Securities Ownership of Indirect (Instr. 3, 4 and 5) (Instr. 3) Code Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership Following or Indirect (Instr. 4) Reported (A) Transaction(s) (Instr. 4) or (Instr. 3 and 4) Code Amount (D) Price Common 02/05/2013 G V 500 D \$0 57,095 D Stock 17,220 Common 05/13/2013 M A \$87.14 D 74,315 (1) Stock Common 23,060 05/13/2013 M A \$89.45 D 97,375

(1)

(1)

(1)

M

M

25,870

27,680

A

A

\$70.69

\$58.71

123,245

150,925

D

D

OMB APPROVAL

3235-0287

January 31,

2005

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Common Stock	05/13/2013	M	12,536 (1)	A	\$ 74.79	163,461	D	
Common Stock	05/13/2013	S	106,366 (1)	D	\$ 107.2428 (2)	57,095	D	
Common Stock						19,820	I	By 401(k) Plan

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

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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 o Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Option (Right to Buy)	\$ 87.14	05/13/2013		M		17,220	11/15/2008(3)	10/22/2017	Common Stock	17,220
Option (Right to Buy)	\$ 89.45	05/13/2013		M		23,060	11/15/2009(4)	10/20/2018	Common Stock	23,060
Option (Right to Buy)	\$ 70.69	05/13/2013		M		25,870	11/15/2010 <u>(5)</u>	10/26/2019	Common Stock	25,870
Option (Right to Buy)	\$ 58.71	05/13/2013		M		27,680	11/15/2011 <u>(6)</u>	10/25/2020	Common Stock	27,680
Option (Right to Buy)	\$ 74.79	05/13/2013		M		12,536	11/15/2012(7)	10/24/2021	Common Stock	12,530

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Snively David F

800 N. LINDBERGH BLVD. EVP, Secy & Gen. Counsel

ST. LOUIS, MO 63167

Signatures

Jennifer L. Woods, Attorney-in-Fact 05/15/2013

**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) The sale and stock option exercises reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on January 11, 2013.
- This price represents the weighted average sale price for multiple transactions reported on this line. The price of the transactions reported on this line ranged from \$106.7001 to \$107.90. Upon request by the Commission staff, the issuer or a security holder of the issuer, the reporting person will undertake to provide full information regarding the number of shares sold at each separate price.
- One-third of the options became exercisable on November 15, 2008, one-third of the options became exercisable on November 15, 2009 and the remainder of the options became exercisable on November 15, 2010, subject to the terms and conditions of the Monsanto Company Long Term Incentive Plan.
- One-third of the options became exercisable on November 15, 2009, one-third of the options became exercisable on November 15, 2010 and the remainder of the options became exercisable on November 15, 2011, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.
- One-third of the options become exercisable on November 15, 2010, one-third of the options became exercisable on November 15, 2011 and the remainder of the options became exercisable on November 15, 2012, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.
- One-third of the options became exercisable on November 15, 2011, one-third of the options became exercisable on November 15, 2012 and the remainder of the options become exercisable on November 15, 2013, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.
- One-third of the options became exercisable on November 15, 2012, one-third of the options become exercisable on November 15, 2013 and the remainder of the options become exercisable on November 15, 2014, subject to the terms and conditions of the Monsanto Company 2005 Long Term Incentive Plan.

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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