GRECO ROSEMARIE B

Form 4

September 14, 2010

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

SECURITIES

OMB Number:

3235-0287

Expires: STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31,

2005

0.5

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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 * GRECO ROSEMARIE B

(First)

(Street)

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

(Middle)

(Month/Day/Year) Execution Date, if

SUNOCO INC [SUN] 3. Date of Earliest Transaction

X_ Director

(Check all applicable)

1735 MARKET STREET

(Month/Day/Year)

09/10/2010

10% Owner Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check

4. If Amendment, Date Original

Person

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

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Filed(Month/Day/Year)

PHILADELPHIA, PA 19103-7583

(City) (State) (Zip) 1.Title of 2. Transaction Date 2A. Deemed

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

5. Amount of 6. 7. Nature of Securities Ownership Indirect Beneficially Form: Direct Beneficial Owned (D) or Ownership Following Indirect (I) (Instr. 4) Reported (Instr. 4)

D

(A) (D) Transaction(s) (Instr. 3 and 4)

Code V Amount Price Common J(1)

(Month/Day/Year)

Stock

Security

(Instr. 3)

09/10/2010

727 11,492 34.879

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)

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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 deprivative deprivative deprivative deprivative Securities deprivation Date de		ate	7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8 D S (I
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Deferred Share Units	<u>(2)</u>	09/10/2010		A	56.021	(3)	(3)	Common Stock	56.021	\$
Phantom Stock	<u>(2)</u>	09/10/2010		A	115.532	<u>(3)</u>	(3)	Common Stock	115.532	\$
Phantom Stock	<u>(2)</u>	09/10/2010		A	242	(3)	(3)	Common Stock	242	\$

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
GRECO ROSEMARIE B 1735 MARKET STREET PHILADELPHIA, PA 19103-7583	X						

Signatures

/s/ John J. DiRocco, Jr., Attorney-in-Fact

09/14/2010

**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) Granted pursuant to Rule 16b-3(d)(1).
- (2) Conversion rate is 1 for 1.
- (3) Not Applicable
- (4) Total of 27,198.696 Phantom Stock Units beneficially owned following reported transaction, under Sunoco, Inc.'s Directors' Deferred Compensation Plan II.
- Total of 13,071.304 Restricted Share Units beneficially owned following reported transaction (9,249.624 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 3,821.680 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).
- Total of 26,956.696 Phantom Stock Units beneficially owned following reported transaction (18,923.118 Phantom Stock Units under (6) Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 8,275.578 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).

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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