

GRECO ROSEMARIE B  
Form 4  
September 14, 2010

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
GRECO ROSEMARIE B

2. Issuer Name and Ticker or Trading Symbol  
SUNOCO INC [SUN]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
1735 MARKET STREET  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
09/10/2010

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

PHILADELPHIA, PA 19103-7583  
(City) (State) (Zip)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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 Ownership (Instr. 4)
Common Stock	09/10/2010		J(1)	V Amount 727 (A) or (D) A Price \$ 34.879	11,492	D	

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. Transaction Code (Instr. 8)	5. Number of Derivative 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 of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Deferred Share Units	(2)	09/10/2010		A	56.021	(3) (3)	Common Stock	56.021
Phantom Stock	(2)	09/10/2010		A	115.532	(3) (3)	Common Stock	115.532
Phantom Stock	(2)	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  
Date: 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).
- (5) Total of 26,956.696 Phantom Stock Units beneficially owned following reported transaction (18,923.118 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 8,275.578 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).
- (6) Total of 26,956.696 Phantom Stock Units beneficially owned following reported transaction (18,923.118 Phantom Stock Units under 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.