GRECO ROSEMARIE B

Form 4 June 11, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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

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SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue.

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

1(b).

(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 GRECO ROSEMARIE B Issuer Symbol SUNOCO INC [SUN] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Other (specify Officer (give title 1735 MARKET STREET 06/10/2010 below) (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 PHILADELPHIA, PA 19103-7583 Person

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities Acquired 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Direct Beneficial (Month/Day/Year) (Instr. 8) Owned (D) or Ownership Following Indirect (I) (Instr. 4) Reported (Instr. 4) (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price Common J(1)06/10/2010 869 10,765 D A 29.146 Stock

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)	orDerivative Securities Acquired (A Disposed of	Securities (Month/Day/Year) Acquired (A) or Disposed of (D) (Instr. 3, 4, and		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	
Phantom Stock	<u>(2)</u>	06/10/2010		A	135.951		(3)	<u>(3)</u>	Common Stock	135.951	\$
Phantom Stock	(2)	06/10/2010		A	289		(3)	(3)	Common Stock	289	\$
Deferred Share Units	(2)	06/10/2010		A	66.64		<u>(3)</u>	(3)	Common Stock	66.64	\$

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

06/11/2010

**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
- Total of 26,841.164 Phantom Stock Units beneficially owned following reported transaction (18,842.017 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 7,999.147 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).
- Total of 13,015.283 Restricted Share Units beneficially owned following reported transaction (9,209.982 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 3,805.301 Restricted Share 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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