

SUNOCO INC
 Form 4
 September 12, 2008

FORM 4

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

OMB APPROVAL

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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

(Last) (First) (Middle)
 1735 MARKET STREET
 (Street)
 PHILADELPHIA, PA 19103-7583
 (City) (State) (Zip)

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

3. Date of Earliest Transaction
 (Month/Day/Year)
09/10/2008

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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)
				(A) or (D)	Code V Amount (D) Price		

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	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	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. D S (I)
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Derivative Security			Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
	Code	V	(A)	(D)				
Deferred Share Units	(1)	09/10/2008	A	86.595	(2)	(2)	Common Stock	86.595 \$
Phantom Stock Units	(1)	09/10/2008	A	174.621	(2)	(2)	Common Stock	174.621 \$

Reporting Owners

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

Signatures

John J. DiRocco, Jr., Attorney-in-fact for Rosemarie B. Greco
 Signature: _____ Date: 09/12/2008

**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).

(4) Total of 24,681.494 Phantom Stock Units beneficially owned following reported transaction (125.362 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 49.259 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).

(2) Not Applicable

(1) Conversion rate is 1 for 1.

(3) Total of 12,239.642 Restricted Share Units beneficially owned following reported transaction (61.277 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 25.318 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.