

SUNOCO INC
 Form 4
 September 12, 2006

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)
09/08/2006

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 Indirect Beneficial 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 Securities Acquired (A)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Pr Deri Secu (Instr. 3 and 4)

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Derivative Security			or 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)		09/08/2006		(2)	(2)	Common Stock	33.712 \$ 7
Phantom Stock Units	(1)		09/08/2006		(2)	(2)	Common Stock	70.554 \$ 7

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
 09/12/2006
 **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).
- (2) Not Applicable
- (1) Conversion rate is 1 for 1.
 Total of 20,640.288 Phantom Stock Units beneficially owned following reported transaction. (58.353 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 12.201 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).
- (3) Total of 9,862.441 Restricted Share Units beneficially owned following reported transaction. (28.523 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 5.189 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II.)
- (4) Includes a balance adjustment of 7.181 Restricted Share Units.
- (6) Includes a balance adjustment of 14.822 Phantom Stock Units.

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.