GRECO ROSEMARIE B

Form 4

December 21, 2005

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

Washington, D.C. 20549

OMB 3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

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response...

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

obligations

may continue.

See Instruction

Check this box

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).

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

SUNOCO INC [SUN]

3. Date of Earliest Transaction

(Check all applicable)

(First) (Middle) (Last)

(Street)

(Month/Day/Year)

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

12/19/2005

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

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

Filed(Month/Day/Year)

Person

PHILADELPHIA, PA 19103-7583

(City) (State) (Zip)

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

1.Title of 2. Transaction Date 2A. Deemed Security (Instr. 3)

1735 MARKET STREET

(Month/Day/Year) Execution Date, if

(Month/Day/Year)

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

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

Reported (A) Transaction(s) or (Instr. 3 and 4)

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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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 3. Transaction Date 3A. Deemed 5. Number of 6. Date Exercisable and 7. Title and Amount of 4 Derivative Conversion (Month/Day/Year) Execution Date, if TransactionDerivative **Expiration Date Underlying Securities** Security or Exercise Code Securities (Month/Day/Year) (Instr. 3 and 4) (Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A) or

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	Derivative Security	Disposed of (D) (Instr. 3, 4, and 5)								
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Deferred Share Units	(1)	12/19/2005	A(2)		229.249		08/08/1988	08/08/1988	Common Stock	229.24
Phantom Stock Units	(1)	12/19/2005	A(4)		328.057		08/08/1988	08/08/1988	Common Stock	328.05

Reporting Owners

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

Signatures

Louisa K. Cresson, Attorney-in-fact for Rosemarie B.

Greco

12/21/2005

**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) The conversion rate is 1 for 1.
- (4) Crediting of share units representing voluntary deferred compensation pursuant to the Sunoco, Inc. Directors Deferred Compensation Plan II, in transactions exempt under Rule 16b-3(d).
- (3) Total of 9,048.881 restricted share units beneficially owned following reported transaction.
- (5) Total of 19,238.978 phantom stock units beneficially owned following reported transaction.
- (2) Yearly election credit increase credited as restricted share units acquired pursuant to the Sunoco, Inc. Directors' Deferred Compensation Plan II in transaction exempt under Rule 16b-3(d).

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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