GRECO ROSEMARIE B

Form 4

December 11, 2009

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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January 31, 2005

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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 * 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 12/10/2009 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 Reneficially Owned

		Tabl	ie 1 - Moii-L	errvauve	Secui	riues Acqu	ii eu, Disposeu oi	, or belieficiali	y Owneu
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securi	ties A	cquired	5. Amount of	6.	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	on(A) or Di	ispose	d of (D)	Securities	Ownership	Indirect
(Instr. 3)		any	Code	(Instr. 3,	4 and	5)	Beneficially	Form: Direct	Beneficial
		(Month/Day/Year)	(Instr. 8)				Owned	(D) or	Ownership
							Following	Indirect (I)	(Instr. 4)
					(4)		Reported	(Instr. 4)	
					(A)		Transaction(s)		
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	12/10/2009		J <u>(1)</u>	1,314	A	\$ 25.685	8,980	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. Transactio Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration D (Month/Day/	6. Date Exercisable and Expiration Date (Month/Day/Year)		Amount of Securities I 4) S
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Phantom Stock	(2)	12/10/2009		A	299.83	<u>(3)</u>	(3)	Common Stock	299.83
Deferred Share Units	<u>(2)</u>	12/10/2009		A	148.687	<u>(3)</u>	(3)	Common Stock	148.687

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/ Louisa K. Cresson, Attorney-in-Fact

12/11/2009

**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 25,970.360 Phantom Stock Units beneficially owned following reported transaction (18,644.423 Phantom Stock Units under
- (4) Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 7,325.937 Phantom Stock Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan II).
- Total of 12,878.794 Restricted Share Units beneficially owned following reported transaction (9,113.399 Restricted Share Units under Sunoco, Inc.'s Directors' Deferred Compensation Plan I and 3,765.395 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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