

Elsenhans Lynn Laverty
 Form 4
 March 04, 2010

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 *
 Elsenhans Lynn Laverty

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 1735 MARKET STREET
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 03/03/2010

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

PHILADELPHIA, PA 19103-7583
 (City) (State) (Zip)

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

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	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Security (Instr. 3 and 4)
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Share
Stock Options (Right to Buy)	\$ 28.2	03/03/2010		A			236,400		03/03/2011 ⁽¹⁾	03/03/2020	Common Stock	236,
Common Stock Unit ⁽⁴⁾	⁽²⁾	03/03/2010		A			88,940		⁽³⁾	⁽³⁾	Common Stock	88,

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Elsenhans Lynn Laverty 1735 MARKET STREET PHILADELPHIA, PA 19103-7583	X		CEO/President	

Signatures

/s/ John J. DiRocco, Jr.,
Attorney-in-Fact

03/04/2010

⁽¹⁾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) Stock options (right to buy Sunoco, Inc. common stock) exercisable in one-third installments on the anniversary of the date of grant (i.e. the first installment exercisable on March 3, 2011, the second on March 2, 2012, and the remaining installment exercisable on March 1, 2013), pursuant to the Sunoco, Inc. Long-Term Performance Enhancement Plan II "LTPEP II", in a transaction exempt under Rule 16b-3.

(2) Conversion rate is 1 for 1.

(3) Not Applicable

(4) This Form 4 is being filed to report a grant time award of restricted common stock units awarded on March 3, 2010 pursuant to the Sunoco, Inc. Long-Term Performance Enhancement Plan II ("LTPEP II") in a transaction exempt under Rule 16b-3. Payout of these restricted common stock units is contingent upon the continued employment of the respective recipient with the Company through March 1, 2013.

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.