

Thomson Michael J  
Form 5  
February 11, 2011

# FORM 5

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person *			2. Issuer Name <b>and</b> Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer		
Thomson Michael J			SUNOCO INC [SUN]			(Check all applicable)		
(Last)	(First)	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Senior V.P.		
1735 MARKET STREET			12/31/2010			6. Individual or Joint/Group Reporting (check applicable line)		
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)			<input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person		
PHILADELPHIA, PA 19103-7583								
(City)	(State)	(Zip)	<b>Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned</b>					

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)	(A) or (D)	Price	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
Common Stock <sup>(1)</sup>	12/31/2010	Â	J4 <sup>(2)</sup>	454	A	\$ 0	806	I	Esop Trust
Common Stock	Â	Â	Â	Â	Â	Â	17,529	D	Â

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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Price of Derivative Security (Instr. 5)
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Date Exercisable		Expiration Date	Title	Amount or Number of Shares
(A)	(D)			

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Thomson Michael J 1735 MARKET STREET PHILADELPHIA, PA 19103-7583	^	^	^ Senior V.P.	^

Signatures

/s/ John J. DiRocco, Jr.,  
Attorney-in-Fact  
\*\*Signature of Reporting Person

02/11/2011  
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) Price ranged from \$27.67 to \$40.31 during fiscal year 2010. This information is supplied by the Plan Administrator for the Sunoco, Inc. Capital Accumulation Plan ("SUNCAP").
- (2) Routine, periodic acquisition of share equivalents pursuant to the Sunoco, Inc. Capital Accumulation Plan in transactions exempt under Rule 16(b). This information is provided by the Plan Administrator.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.