Pickering John D Form 5 February 14, 2012

OMB APPROVAL FORM 5 **OMB** UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Pickering John D Symbol SUNOCO INC [SUN] (Check all applicable) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify 12/31/2011 below) below) 1818 MARKET STREET, SUITE Senior Vice President 1500 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) PHILADELPHIA, Â PAÂ 19103-7583 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Acquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial any (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned at end Indirect (I) Ownership of Issuer's (Instr. 4) (Instr. 4) (A) Fiscal Year or (Instr. 3 and 4) Amount (D) Price **ESOP** Common Â 12/30/2011 $J4^{(1)}$ 1.012 1,985.06 Stock Trust Persons who respond to the collection of information Reminder: Report on a separate line for each class of **SEC 2270** securities beneficially owned directly or indirectly. contained in this form are not required to respond unless (9-02)

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	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)		4. Transaction Code	5. Number of	6. Date Exerc Expiration Do (Month/Day/	ate	7. Title Amou	nt of	8. Price of Derivative Security	
(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8)	Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	e	- 3,	Securi	, ,	(Instr. 5)	
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

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Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Pickering John D 1818 MARKET STREET SUITE 1500 PHILADELPHIA, PA 19103-7583	Â	Â	Senior Vice President	Â		

Signatures

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

**Signature of Reporting Person

Date

**Signature of Reporting Person 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) Routine, periodic acquisition of share equivalents pursuant to the Sunoco, Inc. Capital Accumulation Plan in transaction exempt under Rule 16(b). This information is supplied by the Plan Administrator.
- (2) Price ranged from \$41.02 to \$41.33 during fiscal year 2011. This information is supplied by the Plan Administrator for the Sunoco, Inc. Capital Accumulation Plan ("SUNCAP").

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.

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