

Pickering John D
 Form 3
 May 11, 2011

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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 *			2. Date of Event Requiring Statement (Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol	5. If Amendment, Date Original Filed(Month/Day/Year)
Å Pickering John D (Last) (First) (Middle)			05/11/2011	SUNOCO INC [SUN]	
1735 MARKET STREET (Street)			(Check all applicable)		6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person ___ Form filed by More than One Reporting Person
PHILADELPHIA, Å PA Å 19103-7583 (City) (State) (Zip)			___ Director ___ 10% Owner _X_ Officer ___ Other (give title below) (specify below) Senior Vice President		

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	2,700	D	Å
Common Stock	973.06 ⁽¹⁾	I	ESOP Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) Title	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date		Amount or Number of Shares		or Indirect (I) (Instr. 5)
Stock Options (Right to Buy) ⁽²⁾	03/03/2011	03/03/2020	Common Stock	6,600	\$ 28.2	D

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Pickering John D 1735 MARKET STREET PHILADELPHIA, PA 19103-7583			Senior Vice President	

Signatures

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

05/11/2011

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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 transactions exempt under Rule 16(b). This information is provided by the Plan Administrator.
- (2) 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, in a transaction exempt under Rule 16b-3.

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.