

DOW CHEMICAL CO /DE/  
Form 4  
February 10, 2005

# FORM 4

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).

## 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 \*  
STAVROPOULOS WILLIAM S

2. Issuer Name and Ticker or Trading Symbol  
DOW CHEMICAL CO /DE/ [DOW]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
2030 DOW CENTER  
  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
02/08/2005

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

Chairman of the Board

MIDLAND, MI 48674

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

(City) (State) (Zip)

**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 Indirect Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock <sup>(1)</sup>	02/08/2005		M		112,500 A \$ 31,1042	375,130	D
Common Stock	02/08/2005		F		67,709 D \$ 51.68	307,421	D
Common Stock	02/08/2005		F <sup>(2)</sup>		13,594 D \$ 51.68	293,827	D
Common Stock	02/08/2005		S		31,197 D \$ 51.1	262,630	D
Common Stock						8,260.695	I by 401(k) Plan



## 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 under The Dow Chemical Company 1988 Award and Option Plan, a Rule 16b-3 plan. The plan pursuant to which the reported grant was made provides for tax withholding rights.
- (2) Shares withheld pursuant to tax withholding rights under award and option plan in a transaction exempt under Rule 16b-3.
- (3) The options vest in three equal annual installments beginning on February 16, 2000.

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.