

ALLEMANG ARNOLD A  
Form 4  
December 15, 2004

**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 \*  
ALLEMANG ARNOLD A

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

MIDLAND, MI 48674

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

DOW CHEMICAL CO /DE/ [DOW]

3. Date of Earliest Transaction (Month/Day/Year)  
12/13/2004

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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 Indirect Ownership (Instr. 4)			
			Code	V	Amount	(A) or (D)	Price			
Common Stock <sup>(1)</sup>	12/13/2004		M		35,000	A	\$ 27.005	38,816	D	
Common Stock	12/13/2004		F <sup>(2)</sup>		10,623	D	\$ 49.1	28,193	D	
Common Stock	12/14/2004		G	V	13,170	D	<u>3</u>	78,127	I	by Trust1 <sup>(4)</sup>
Common Stock								70,171	I	by Trust 2
Common Stock								3,055.825	I	by 401(k) Plan



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- (2) Shares withheld pursuant to tax withholding rights under Award and Option Plans in a transaction exempt under Rule 16b-3.
- (3) Bona fide gift.
- (4) Arnold Avery Allemang and Teresa Sue Spangler Allemang, as Trustees of the Arnold Avery Allemang Revocable Trust U/A 07/28/94
- (5) The shares vest in one installment on December 13, 2004.

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.