

Warnecke David N
 Form 4
 December 10, 2007

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 *
 Warnecke David N

(Last) (First) (Middle)
 CITYPLACE ONE, SUITE 300
 (Street)

ST. LOUIS, MO 63144

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 ARCH COAL INC [ACI]

3. Date of Earliest Transaction
 (Month/Day/Year)
 12/06/2007

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)

VP-Marketing & Trading

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 Beneficial Ownership (Instr. 4)
				Code V Amount (A) or (D) Price			
Common stock ⁽¹⁾	12/06/2007		M	600 A \$ 10.975	6,400	D	
Common stock ⁽¹⁾	12/06/2007		M	6,574 A \$ 11.3	12,974	D	
Common stock ⁽¹⁾	12/06/2007		S	7,174 D \$ 40	5,800	D	

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

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The reporting person received 4,600 stock options on February 22, 2001. The stock options vested ratably over a three year period as follows: 1,534 stock options vested on February 22, 2002; 1,533 stock options vested on February 22, 2003; and 1,533 stock options vested on February 22, 2004.

The reporting person received 26,300 stock options on April 25, 2002. The stock options vested ratably over a four year period as follows: 6,575 stock options vested on April 25, 2003; 6,575 stock options vested on April 25, 2004; 6,575 stock options vested on April 25, 2005; and 6,575 stock options vested on April 25, 2006.

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.