

JONES ROBERT G  
 Form 4  
 May 07, 2008

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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 \*  
**JONES ROBERT G**

(Last) (First) (Middle)

**ONE CITYPLACE DRIVE**

(Street)

**ST. LOUIS, MO 63141**

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)  
**05/06/2008**

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-Law, Gen. Counsel & Secy

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  | Code                           | V   | Amount or Price   |  |                                   |
| Common Stock                    | 05/06/2008                           |  | M                              |   | 25,800 A \$ 10.98   | 37,371   | D                                 |
| Common Stock                    | 05/06/2008                           |  | M                              |   | 9,500 A \$ 4.25   | 46,871   | D                                 |
| Common Stock                    | 05/06/2008                           |  | S                              |   | 900 D \$ 62.77  | 45,971   | D                                 |
| Common Stock                    | 05/06/2008                           |  | S                              |   | 9,100 D \$ 62.76  | 36,871   | D                                 |
| Common Stock                    | 05/06/2008                           |  | S                              |   | 10,000 D \$ 62.8  | 26,871   | D                                 |

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|              |            |   |       |   |           |        |   |                |
|--------------|------------|---|-------|---|-----------|--------|---|----------------|
| Common Stock | 05/06/2008 | S | 1,200 | D | \$ 62.685 | 25,671 | D |                |
| Common Stock | 05/06/2008 | S | 5,000 | D | \$ 62.69  | 20,671 | D |                |
| Common Stock | 05/06/2008 | S | 3,600 | D | \$ 62.67  | 17,071 | D |                |
| Common Stock | 05/06/2008 | S | 100   | D | \$ 62.66  | 16,971 | D |                |
| Common Stock | 05/06/2008 | S | 5,400 | D | \$ 62.65  | 11,571 | D |                |
| Common Stock |            |   |       |   |           | 4,433  | I | By 401(k) Plan |

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

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SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|----------------------------|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable   | Expiration Date   | Title                      | Amount or Number of Shares |
| Employee Stock Options (right to buy)      | \$ 4.25  | 05/06/2008                           |  | M                              | 9,500   | <u>(1)</u> 02/24/2010                                    | Common Stock  | 9,500                      |                            |
| Employee Stock Options (right to buy)      | \$ 10.98   | 05/06/2008                           |  | M                              | 25,800  | <u>(2)</u> 02/22/2011                                    | Common Stock  | 25,800                     |                            |

## Reporting Owners

| Reporting Owner Name / Address                               | Relationships |           |                             |       |
|--|---------------|-----------|-----------------------------|-------|
|  | Director      | 10% Owner | Officer                     | Other |
| JONES ROBERT G<br>ONE CITYPLACE DRIVE<br>ST. LOUIS, MO 63141 |               |           | VP-Law, Gen. Counsel & Secy |       |

## Signatures

/s/ Gregory A. Billhartz,  
Attorney-in-Fact

05/07/2008

\_\_Signature of Reporting Person

Date

## 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).

The reporting person received 26,500 stock options on February 24, 2000. The stock options vested ratably over a three year period as follows: 8,834 stock options vested on February 24, 2001; 8,833 stock options vested on February 24, 2002; and 8,833 stock options vested on February 24, 2003.

The reporting person received 25,800 stock options on February 22, 2001. The stock options vested ratably over a three year period as follows: 8,600 stock options vested on February 22, 2002; 8,600 stock options vested on February 22, 2003; and 8,600 stock options vested on February 22, 2004.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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