

ARCH COAL INC  
Form 4  
August 17, 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 \*  
**PEUGH DAVID B**

(Last) (First) (Middle)  
**ONECITYPLACE 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)  
**08/15/2005**

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)  
**Vice President - Bus Dev**

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)	
				(A) or (D)	Price			
				Code	V	Amount		
Common Stock	08/15/2005		M	11,500	A	\$ 10.6875	0	D
Common Stock	08/15/2005		M	8,400	A	\$ 21.95	0	D
Common Stock	08/15/2005		M	13,250	A	\$ 22.875	0	D
Common Stock	08/15/2005		M	13,250	A	\$ 27.875	7,698	D
Common Stock	08/15/2005		S	46,400	D	\$ 61.319	1,022	I

By 401(k) plan

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

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(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)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title Amount or Number of Shares
Employee Stock Options	\$ 10.6875	08/15/2005	08/17/2005	M	11,500	<u>(1)</u> 02/25/2009	Common Stock 11,500
Employee Stock Options	\$ 21.95	08/15/2005	08/17/2005	M	8,400	<u>(2)</u> 02/22/2011	Common Stock 8,400
Employee Stock Options	\$ 22.875	08/15/2005	08/17/2005	M	13,250	<u>(3)</u> 07/22/2008	Common Stock 13,250
Employee Stock Options	\$ 27.875	08/15/2005	08/17/2005	M	13,250	<u>(4)</u> 07/23/2007	Common Stock 13,250

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
PEUGH DAVID B ONECITYPLACE DRIVE ST. LOUIS, MO 63141			Vice President - Bus Dev	

## Signatures

/s/ Janet L. Horgan,  
Attorney-in-Fact

08/17/2005

\*\*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).

(1) 7,082 shares vested on February 25, 2002; and 4,418 shares vested on February 25, 2003.

(2) 2,800 shares vested on February 22, 2002; 2,800 shares vested on February 22, 2003; and 2,800 shares vested on February 22, 2004.

(3) 4,417 shares vested on July 22, 1999; 4,417 shares vested on July 22, 2000; and 4,416 shares vested on July 22, 2001.

(4) 4,417 shares vested on July 23, 1998; 4,417 shares vested on July 23, 1999; and 4,416 shares vested on July 23, 2000.

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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