

PEUGH DAVID B  
Form 5  
February 14, 2006

# FORM 5

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

Check this box if  
no longer subject  
to Section 16.  
Form 4 or Form  
5 obligations  
may continue.  
See Instruction  
1(b).  
Form 3 Holdings  
Reported  
Form 4  
Transactions  
Reported

### ANNUAL 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

#### OMB APPROVAL

OMB  
Number: 3235-0362  
Expires: January 31,  
2005  
Estimated average  
burden hours per  
response... 1.0

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. Statement for Issuer's Fiscal Year Ended  
(Month/Day/Year)  
12/31/2005

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

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

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

Vice President - Bus Dev

6. Individual or Joint/Group Reporting

(check applicable line)

\_\_\_\_X\_\_\_\_ 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)  (A) or Amount (D) Price	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
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Reminder: Report on a separate line for each class of  
securities beneficially owned directly or indirectly.

**Persons who respond to the collection of information  
contained in this form are not required to respond unless  
the form displays a currently valid OMB control number.**

SEC 2270  
(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	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)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Title and Amount of Underlying Securities (Instr. 3 and 4)
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	Derivative Security				or Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
					(A)	(D)				
Phantom Stock	Â	01/14/2005	Â	A	168	Â	Â (2)	Â (2)	Common Stock	168
Phantom Stock	Â	01/31/2005	Â	A	252	Â	Â (2)	Â (2)	Common Stock	252
Phantom Stock	Â	03/03/2005	Â	A	1,512	Â	Â (2)	Â (2)	Common Stock	1,512
Phantom Stock	Â	03/15/2005	Â	A	4	Â	Â (2)	Â (2)	Common Stock	4
Phantom Stock	Â	06/15/2005	Â	A	3	Â	Â (2)	Â (2)	Commom Stock	3
Phantom Stock	Â	09/14/2005	Â	A	2	Â	Â (2)	Â (2)	Common Stock	2
Phantom Stock	Â	12/14/2005	Â	A	2	Â	Â (2)	Â (2)	Common Stock	2
Phantom Stock	Â	01/13/2006	Â	A	420	Â	Â (2)	Â (2)	Common Stock	420
Phantom Stock	Â	01/30/2006	Â	A	252	Â	Â (2)	Â (2)	Common Stock	252

## Reporting Owners

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

## Signatures

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

02/14/2006

\_\_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)

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Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the executive officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan") and represent past compensation, the vested portion of restricted stock awards and/or payouts under other incentive compensation arrangements that the executive officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.

- (2) Shares of phantom stock are payable in cash on the date or dates elected by the executive officer, subject to the terms of the Plan. The executive officer may transfer any or all of the phantom stock account into an alternative investment account at any time.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.