

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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(f) of the Investment Company Act of 1940

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

OMB APPROVAL

OMB Number: 3235-0287
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(Print or Type Response)

1. Name and Address of Reporting Person*

Peugh	David	B.
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(Last)	(First)	(Middle)
City Place One, Suite 300		

(Street)		
St. Louis	MO	63141
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(City)	(State)	(Zip)

2. Issuer Name and Ticker or Trading Symbol

Arch Coal, Inc. (ACI)

3. IRS or Social Security Number of Reporting Person (Voluntary)

4. Statement for Month/Year

May 2000

5. If Amendment, Date of Original (Month/Year)

6. Relationship of Reporting Person(s) to Issuer (Check all applicable)

/ / Director
/ / 10% Owner
/ X / Officer (Give Title) Vice President - Business Development
/ / Other (Specify) -----

7. Individual or Joint/Group Filing (Check Applicable Line)

/ X / Form filed by One Reporting Person
/ / Form filed by More than One Reporting Person

1. Title of Security (Instr. 3)	2. Trans- action Date	3. Trans- action Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Benefici- ally Owned at End of Month (Instr. 3 and 4)	6. Ownership Form: Direct (D) or In- direct (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
	(Month/ Day/ Year)	Code V	Amount (A) or (D)	Price			
Common Stock	5/02/2000	P	800	A \$5.625	2,994	D	
					437.809 (1)	I	By 401(K) Plan

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(1) Represents shares purchased under 401(K) plan since January 1, 1998.

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.*
If the form is filed by more than one person, see Instruction 4(b)(v).

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)	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

Table II (continued)

8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned at End of Month (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
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Explanation of Responses:

/s/ Rosemary L. Klein

 **Signature of Reporting Person
 Rosemary L. Klein
 Attorney in Fact

June 8, 2000

 Date

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations.

See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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.