

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).

(Print or Type Response)

1. Name and Address of Reporting Person\*

Chellgren Paul W.  
 -----  
 (Last) (First) (Middle)  
 P.O. Box 391  
 -----  
 (Street)  
 Ashland Kentucky 41114  
 -----  
 (City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

Arch Coal, Inc. (ACI)  
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3. IRS or Social Security Number of Reporting Person (Voluntary)

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4. Statement for Month/Year

6/1998  
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5. If Amendment, Date of Original (Month/Year)

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

/ X / Director  
 / / 10% Owner  
 / / Officer (Give Title) -----  
 / / 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

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TABLE I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

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1. Title of Security (Instr. 3)	2. Trans- action Date  (Month/ Day/	3. Trans- action Code (Instr. 8)  Code V	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)  Amount (A) or (D) Price	5. Amount of Securities Benefici- ally Owned at End of Month (Instr. 3	6. Ownership Form: Direct (D) or In- direct (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
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Year)

and 4)

Common Stock	6/5/1998	P	1,000.00	A	23.9375	5378.838(1)	D
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

(1) Includes 378.838 shares acquired pursuant to the issuer's dividend reinvestment plan.

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

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1. Title of Derivative Security (Instr. 3)	2. Conver- sion or Exercise Price of Deriva- tive Security	3. Trans- action Date (Month/ Day/ Year)	4. Trans- action 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 Under- lying Securities (Instr. 3 and 4)	
			Code    V	(A)    (D)	Date    Expir- Exer-    ation cisable    Date	Title	Amount or Number of Shares

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Table II (continued)

8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Benefic- ially 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/ Miriam Rogers Singer	July 8, 1998	
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**Signature of Reporting Person (on behalf of Paul W. Chellgren)	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.