

Cochran Kenneth D.  
 Form 3  
 August 13, 2012

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 * |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                         |  |
| Â Cochran Kenneth D.                      |         | (Month/Day/Year)                     | ARCH COAL INC [ACI]  |  |
| (Last)                                    | (First) | (Middle)                             | 08/09/2012   |  |
| ONE CITYPLACE DRIVE,Â SUITE 300           |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)   |  |
| ST. LOUIS,Â MOÂ 63141                     |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)                                    | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | Sr. VP - Operations  |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 17,500  | D  | Â   |

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

SEC 1473 (7-02)

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

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|--|--|---|--|--|---|

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|                        | Date Exercisable | Expiration Date | Amount or Number of Shares | or Indirect (I) (Instr. 5) |
|------------------------|------------------|-----------------|----------------------------|----------------------------|
| Employee Stock Options | Â (1)            | 02/22/2017      | Common Stock 7,500         | \$ 32.99 D Â               |
| Employee Stock Options | Â (2)            | 02/21/2018      | Common Stock 7,850         | \$ 52.69 D Â               |
| Employee Stock Options | Â (3)            | 02/19/2019      | Common Stock 10,050        | \$ 14.05 D Â               |
| Employee Stock Options | Â (4)            | 02/18/2020      | Common Stock 7,600         | \$ 22.65 D Â               |
| Employee Stock Options | Â (5)            | 02/24/2021      | Common Stock 5,200         | \$ 32.49 D Â               |
| Employee Stock Options | Â (6)            | 02/23/2022      | Common Stock 21,650        | \$ 13.93 D Â               |
| Restricted Stock Units | Â (7)            | Â (8)           | Common Stock 8,600         | \$ 13.93 D Â               |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                       |       |
|---|---------------|-----------|-----------------------|-------|
|   | Director      | 10% Owner | Officer               | Other |
| Cochran Kenneth D.<br>ONE CITYPLACE DRIVE<br>SUITE 300<br>ST. LOUIS, MO 63141 | Â             | Â         | Â Sr. VP - Operations | Â     |

## Signatures

/s/ Jon S. Ploetz,  
Attorney-in-Fact

08/13/2012

\_\_Signature of Reporting Person Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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) The reporting person received 7,500 stock options on February 22, 2007. The stock options vested ratably over 3 years as follows: 2,500 shares vested on February 22, 2008; 2,500 shares vested on February 22, 2009; and 2,500 shares vested on February 22, 2010.
  - (2) The reporting person received 7,850 stock options on February 21, 2008. The stock options vested ratably over 3 years as follows: 2,617 shares vested on February 21, 2009; 2,617 shares vested on February 21, 2010; and 2,616 shares vested on February 21, 2011.
  - (3) The reporting person received 10,050 stock options on February 19, 2009. The stock options vest ratably over 4 years as follows: 2,513 shares vested on February 19, 2010; 2,513 shares vested on February 19, 2011; 2,512 shares vested on February 19, 2012; and 2,512 shares will vest on February 19, 2013.
  - (4) The reporting person received 7,600 stock options on February 18, 2010. The stock options vest ratably over 4 years as follows: 1,900 shares vested on February 18, 2011; 1,900 shares vested on February 18, 2012; 1,900 shares will vest on February 18, 2013; and 1,900 shares will vest on February 18, 2014.

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- (5) The reporting person received 5,200 stock options on February 24, 2011. The stock options vest ratably over 3 years as follows: 1,734 shares vested on February 24, 2012; 1,733 shares will vest on February 24, 2013; and 1,733 shares will vest on February 24, 2014.
- (6) The reporting person received 21,650 stock options on February 23, 2012. The stock options vest ratably over 3 years as follows: 7,217 shares will vest on February 23, 2013; 7,217 shares will vest on February 23, 2014; and 7,216 shares will vest on February 24, 2015.
- (7) The reporting person received 8,600 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.
- (8) The restricted stock units do not expire.

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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