Warnecke David N Form 3 August 08, 2005

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, response... 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 *

Warnecke David N

(Last)

(First)

(Middle)

Statement

(Month/Day/Year)

07/28/2005

2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol

ARCH COAL INC [ACI]

4. Relationship of Reporting Person(s) to Issuer

(give title below) (specify below)

VP-Marketing & Trading

5. If Amendment, Date Original

Filed(Month/Day/Year)

CITYPLACE ONE, SUITE

300

(Street)

(Check all applicable) Director

_X__ Officer

10% Owner Other

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting

Person

Form filed by More than One

Reporting Person

ST. LOUIS, MOÂ 63144

(City) (State) (Zip)

1. Title of Security (Instr. 4)

2. Amount of Securities Beneficially Owned

(Instr. 4)

Ownership Form:

Table I - Non-Derivative Securities Beneficially Owned

4. Nature of Indirect Beneficial Ownership

(Instr. 5)

Direct (D) or Indirect (I) (Instr. 5)

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

SEC 1473 (7-02)

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.

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

5. Ownership Form of Derivative

6. Nature of Indirect Beneficial

Ownership

(Instr. 5)

Date Exercisable Expiration Date

Title

Amount or Number of Shares

Derivative Security

Security: Direct (D) or Indirect

(I)

						(Instr. 5)	
Employee Stock Options	02/22/2004	02/22/2011	Common Stock	300	\$ 21.95	D	Â
Employee Stock Options	(1)	02/29/2012	Common Stock	6,574	\$ 18.15	D	Â
Employee Stock Options	(2)	04/25/2012	Common Stock	13,150	\$ 22.6	D	Â
Employee Stock Options	04/28/2008	(3)	Common Stock	5,000	\$ 43.5	D	Â
Phantom Stock	(4)	12/31/2008	Common Stock	9,400	\$ <u>(5)</u>	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships					
•	Director	10% Owner	Officer	Other		
Warnecke David N CITYPLACE ONE SUITE 300 ST. LOUIS, MO 63144	Â	Â	VP-Marketing & Trading	Â		

Signatures

/s/ Janet L. Horgan, Attorney-in-Fact 08/08/2005

**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) These Stock Options vests as follows: 3,287 on 2/28/2005 and 3,287 on 2/28/2006.
- (2) These Stock Options vest as follows: 3,288 on 4/25/2003; 3,288 on 4/25/2004; 3,287 on 4/25/2005; and 3,287 on 4/25/2006.
- (3) No expiration
- (4) The Phantom Stock will vest in the event the Company's common stock hits target prices of \$70.00 or \$80.00 and the Company's financial performance meets certain targets at such time.
- (**5**) 1-for-1

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.

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