
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

FORM 8-K

**CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934**

Date of report (Date of earliest event reported): **January 17, 2014 (January 13, 2014)**

Arch Coal, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of incorporation)

1-13105
(Commission File Number)

43-0921172
(I.R.S. Employer Identification No.)

**CityPlace One
One CityPlace Drive, Suite 300
St. Louis, Missouri 63141**
(Address, including zip code, of principal executive offices)

Registrant's telephone number, including area code: **(314) 994-2700**

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 1.04 Mine Safety — Reporting of Shutdowns and Patterns of Violations.

On January 13, 2014, ICG Tygart Valley, LLC, a subsidiary of Arch Coal, Inc., received an imminent danger order under section 107(a) of the Federal Mine Safety and Health Act of 1977 at the Leer mine in Taylor County, West Virginia for excessive measurable limits of methane air mixtures. Employees were immediately withdrawn from the area and the problem was corrected.

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Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: January 17, 2014

Arch Coal, Inc.

By: /s/ Robert G. Jones
Robert G. Jones
Senior Vice President — Law, General Counsel and Secretary

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