



DIVISION OF
CORPORATION FINANCE

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549-4628

June 16, 2010

Via U.S. Mail

Mr. John T. Drexler
Senior Vice President and Chief Financial Officer
Arch Coal, Inc.
One City Place Drive, Suite 300
St. Louis, Missouri 63141

Re: Arch Coal, Inc.
Form 10-K for the Fiscal Year Ended December 31, 2009
Filed March 1, 2010
File Number 1-13105

Dear Mr. Drexler:

We have completed our review of your Form 10-K and related filings and have no further comments at this time.

Sincerely,

H. Roger Schwall
Assistant Director