

TORTOISE MLP CORP.  
Form N-8A  
April 23, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM N-8A  
NOTIFICATION OF REGISTRATION  
FILED PURSUANT TO SECTION 8(a)  
OF THE INVESTMENT COMPANY ACT OF 1940**

The undersigned investment company hereby notifies the Securities and Exchange Commission that it registers under and pursuant to the provisions of Section 8(a) of the Investment Company Act of 1940, and in connection with such notification of registration submits the following information:

Name: Tortoise MLP Corp.

Address of Principal Business Office (No. & Street, City, State, Zip Code):

11550 Ash Street, Suite 300

Leawood, KS 66211

Telephone Number (including area code): (913) 981-1020

Name and address of agent for service of process:

David J. Schulte

Tortoise Capital Advisors, L.L.C.

11550 Ash Street, Suite 300

Leawood, KS 66211

Copy to:

Steven F. Carman

Husch Blackwell Sanders LLP

4801 Main Street, Suite 1000

Kansas City, Missouri 64112

Check Appropriate Box:

Registrant is filing a Registration Statement pursuant to Section 8(b) of the Investment Company Act of 1940 concurrently with the filing of Form N-8A:

YES  NO

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Pursuant to the requirements of the Investment Company Act of 1940, the registrant has caused this notification of registration to be duly signed on its behalf in the City of Leawood and the State of Kansas on the 23rd day of April, 2010.

Tortoise MLP Corp.

By: /s/ H. Kevin Birzer  
H. Kevin Birzer, Director

Attest: /s/ David J. Schulte  
David J. Schulte,  
Chief Executive Officer