

ClearBridge Energy MLP Fund Inc.  
Form N-Q  
October 25, 2010

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

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED  
MANAGEMENT INVESTMENT COMPANY**

Investment Company Act file number 811-22405

ClearBridge Energy MLP Fund Inc.  
(Exact name of registrant as specified in charter)

55 Water Street, New York, NY  
(Address of principal executive offices)

10041  
(Zip code)

Robert I. Frenkel, Esq.

Legg Mason & Co., LLC

100 First Stamford Place

Stamford, CT 06902  
(Name and address of agent for service)

Registrant's telephone number, including area code: (888)777-0102

Date of fiscal year end: November 30

Date of reporting period: August 31, 2010

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ITEM 1.

SCHEDULE OF INVESTMENTS

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**CLEARBRIDGE ENERGY MLP FUND INC.**

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**AUGUST 31, 2010**

**CLEARBRIDGE ENERGY MLP FUND INC.**

Schedule of investments (unaudited)

August 31, 2010

		SHARES	VALUE
SECURITY			
MASTER LIMITED PARTNERSHIPS	95.2%		
Crude/Refined Products Pipelines	28.8%		
Buckeye Partners LP			