

Securities and Exchange Commission  
Washington, D.C. 20549

Schedule 13-G  
Under the Securities Exchange Act of 1934

Kansas City Power & Light 3.8%  
Preferred Stock  
CUSIP Number 485134209

Check the following box if a fee is being paid with this statement. [ ]

CUSIP No. 485134209

- 1) Name of reporting person:  
Legg Mason, Inc.  
Tax Identification No:  
52-1200960
  - 2) Check the appropriate box if a member of a group:  
a) n/a  
b) n/a
  - 3) SEC use only
  - 4) Place of organization:  
Baltimore, Maryland
- Number of shares beneficially owned by each reporting person with:
- 5) Sole voting power:
  - 6) Shared voting power:
  - 7) Sole dispositive power: 5,010 shares\*
  - 8) Shared dispositive power:
- 9) Aggregate amount beneficially owned by each reporting person:  
5,010 shares\*
  - 10) Check if the aggregate amount in row (9) excludes certain shares:  
n/a
  - 11) Percent of class represented by amount in row (9):  
5.01%
  - 12) Type of reporting person:  
HC

\*Shares are held in Legg Mason Wood Walker Inc. ("LMWW") inventory accounts and by various clients of LMWW, which has power to dispose thereof.

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- Item 1a) Name of issuer:  
Kansas City Power & Light
- Item 1b) Address of issuer's principal executive offices:  
1201 Baltimore Avenue  
Kansas City, MO 64106-2124
- Item 2a) Name of person filing:  
Legg Mason, Inc.
- Item 2b) Address of principal business office:  
100 Light Street  
Baltimore, Maryland 21202
- Item 2c) Citizenship:  
Maryland Corporation
- Item 2d) Title of class of securities:  
Preferred Stock
- Item 2e) CUSIP number: 485134209
- Item 3) If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b),  
check whether the person filing is a:  
(a) [ ] Broker or dealer under Section 15 of the Act.  
(b) [ ] Bank as defined in Section 3(a)(6) of the Act.  
(c) [ ] Insurance Company as defined in section 3(a)(19) of the Act.  
(d) [ ] Investment Company registered under Section 8 of the Investment  
Company Act.  
(e) [ ] Investment Adviser registered under Section 203 of the Investment  
Advisers Act of 1940.

- (f)  Employee Benefit Plan, Pension Fund which is subject to ERISA of 1974 or Endowment Fund; see 240.13d-1(b)(ii)(F).
- (g)  Parent holding company, in accordance with 240.13d-1(b)(ii)(G).
- (h)  Group, in accordance with 240.13d-1(b)(1)(ii)(H).

Item 4) Ownership:

(a) Amount beneficially owned:

5,010 shares\*

(b) Percent of Class:

5.01%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote:

(ii) shared power to vote or to direct the vote:

(iii) sole power to dispose or to direct the disposition of:

5,010 shares\*

(iv) shared power to dispose or to direct the disposition of:

\*Shares are held in Legg Mason Wood Walker Inc. ("LMWW") inventory accounts and by various clients of LMWW, which has power to dispose thereof.

Item 5) Ownership of Five Percent or less of a class:  
n/a

Item 6) Ownership of more than Five Percent on behalf of another person:  
n/a

Item 7) Identification and classification of the subsidiary which acquired  
the security being reported on by the parent holding company:  
Legg Mason Wood Walker, Inc., as broker/dealer with discretion

Item 8) Identification and classification of members of the group:  
n/a

Item 9) Notice of dissolution of group:  
n/a

Item 10) Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 11, 1998  
Date

/s/Timothy C. Scheve  
Signature

Timothy C. Scheve, Executive Vice President, Legg Mason, Inc.  
Name/Title