

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

Schedule 13D

Under the Securities Exchange Act of 1934  
(Amendment No. 5)\*

Electric Fuel Corporation  
(Name of Issuer)

Common Stock \$0.01 Par Value  
(Title of Class of Securities)

284871-10-0  
(CUSIP Number)

Steven M. Plon, Esquire, Silverman Coopersmith Hillman & Frimmer  
Two Penn Center Plaza, Suite 910, Philadelphia, PA 19102, (215) 636-4482  
(Name, Address and Telephone Number of Person Authorized to Receive  
Notices and Communications)

May 5, 1997  
(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(b)(3) or (4), check the following box.

Check the following box if a fee is being paid with the statement. (A fee is not required only if the reporting person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the claim of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7.)

Note: Six copies of this statement, including all exhibits, should be filed with the Commission. See Rule 13d1(a) for other parties to whom copies are to be sent.

\*The remainder of this coverage page shall be filed out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that action of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on following page(s))

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13D

CUSIP NO. 284871-10-0

1. NAME OF REPORTING PERSONS  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS  
Leon S. Gross S.S. No. ###-##-####
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*  
(a) X  
(b)
3. SEC USE ONLY
4. SOURCE OF FUNDS\*  
PF and 00
5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO  
ITEM 2(d) or 2(e)
6. CITIZENSHIP OR PLACE OF ORGANIZATION  
United States of America

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

7. SOLE VOTING POWER  
3,422,362

8. SHARED VOTING POWER  
0
9. SOLE DISPOSITIVE POWER  
1,538,462
10. SHARED DISPOSITIVE POWER  
1,883,900 shares are subject to Margin Account Agreements.
11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
3,422,362
12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES\*
13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
24% of issued and outstanding stock
14. TYPE OF REPORTING PERSON\*  
IN

\*SEE INSTRUCTIONS BEFORE FILLING OUT!

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AMENDMENT NO. 5 TO SCHEDULE 13-D

This Amendment No. 5 to the Schedule 13D dated February 23, 1996, as amended by the First Amendment to Schedule 13D dated April 30, 1996, the Second Amendment to Schedule 13D dated September 1, 1996, the Third Amendment to Schedule 13D dated October 11, 1996 and the Fourth Amendment to Schedule 13D dated December 27, 1996 (the "Existing Schedule 13D"), is being filed by the undersigned in accordance with Rule 13d-2(a) of the general rules and regulations under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and amends the Existing Schedule 13D to the extent set forth below. Terms defined in the Existing Schedule 13D are used herein as so defined.

Item 3. Source and Amount of Funds or Other Consideration.

Amend Item 3 of the Existing Schedule 13D by adding the following paragraph:

The 83,500 Shares of the Issuer acquired by Mr. Gross in open market purchases since March 1, 1997 were acquired at a cost (excluding commissions) of \$476,937.50. The funds required for all of the foregoing Shares purchased by Mr. Gross were provided, in part, by Mr. Gross's personal funds, and, in part, from funds borrowed by Mr. Gross through his margin accounts at the Brokerage Firms.

Item 4. Purpose of Transaction.

Item 4 of the Existing Schedule 13D is hereby amended by adding the following:

As of March 31, 1997, Mr. Gross became a member of the board of directors of the Issuer.

Item 5. Interest in Securities of the Issuer.

The third paragraph of Items 5(a) and (b) of the Existing Schedule 13D is hereby amended to read as follows:

Mr. Gross beneficially owns 3,422,362 Shares, or 24% of the Common Stock outstanding. Mr. Gross has the sole power to vote all Shares beneficially owned by him. Mr. Gross has sole power to dispose of all Shares beneficially owned by him, except for rights as to disposition for a total of 1,883,900 Shares granted to the Brokerage Firms under their respective Margin Account Agreements. To the best of Mr. Gross' knowledge, no other person has the right to receive or the power to direct the receipt of dividends from, or proceeds of the sale of, the shares of Common Stock held by him.

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(c) Listed below are the acquisitions of Shares by Mr. Gross which have occurred since March 1, 1997. Other than the shares purchased on May 5, 1997, which were purchased pursuant to a private sale, the acquisitions were made through open market purchases.

Date	Number of Shares	Price Per Share
March 10, 1997	35,000	\$5.625
March 11, 1997	5,000	\$5.50
March 18, 1997	4,400	\$5.375
March 19, 1997	1,000	\$5.375
March 31, 1997	3,100	\$5.375
April 1, 1997	5,000	\$5.375

May 5, 1997

30,000

\$6.00

Total

83,500

As a result of joining the board of directors of the Issuer, on March 31, 1997 Mr. Gross was granted options to purchase 15,000 shares of the Issuer's common stock at the exercise price of \$5.375 per share. One-third of the options are exercisable on each of the first, second and third anniversaries of the date of grant.

Item 6. Contracts, Arrangements, Understanding or Relationship With Respect to Securities of the Issuer.

Item 6 of the Existing Schedule 13D is hereby amended by adding the following paragraph:

Since the filing of the Existing Schedule 13D, Mr. Gross has added to and moved Shares among the margin accounts he has with the Brokerage Firms. As of May 5, 1997, Mr. Gross' Shares are pledged as follows:

Brokerage Firm	Number of Shares
Advest	29,000
Donaldson, Lufkin & Jenrette	262,500
Goldman Sachs	20,000
Gruntal	20,000
Lehman Brothers	1,204,500
Prudential	146,300
TOTAL	<u>1,883,900</u>

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SIGNATURE

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.

May 12, 1997  
Date

/s/ Leon S. Gross  
Leon S. Gross

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