

This Registration Statement shall become effective immediately upon filing pursuant to Securities Act Rule 462

As filed with the Securities and Exchange Commission on May 1, 2001

Registration No. 333-\_\_\_\_\_

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

FORM S-8  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

Electric Fuel Corporation  
(Exact name of Registrant as specified in its charter)

<TABLE>  
<CAPTION>

Delaware (State or other jurisdiction of incorporation or organization)	95-4302784 (I.R.S. Employer Identification No.)
<S>	<C>
Electric Fuel Corporation 632 Broadway, Suite 301 New York, New York 10012 Tel: (212) 529-9200 Fax: (212) 529-5800 (Address, including ZIP code, and telephone number, including area code, of Registrant's principal executive offices)	Matt Collins Electric Fuel Corporation 632 Broadway, Suite 301 New York, New York 10012 Tel: (212) 529-9200 Fax: (212) 529-5800 (Address, including ZIP code, and telephone number, including area code, of agent for service)

</TABLE>

ELECTRIC FUEL CORPORATION AMENDED AND RESTATED  
1993 STOCK OPTION AND RESTRICTED STOCK PURCHASE PLAN  
(Full title of the plan)

Copies of all communications, including communications sent to the agent for service, to:

Yaakov Har-Oz, Esq.  
Vice President and General Counsel  
Electric Fuel Ltd.  
Western Industrial Park, P.O. Box 641  
Beit Shemesh, Israel  
Tel: +972-2-990-6623  
Fax: +972-2-990-6688

<TABLE>  
<CAPTION>

CALCULATION OF REGISTRATION FEE

Amount of registration fee	Amount to be registered	Proposed maximum offering price per share	Proposed maximum aggregate offering price
Title of securities to be registered	registered	per share	offering price
<S>	<C>	<C>	<C>
Common Stock, par value \$0.01 per share 1,201.88	1,500,000(1)	\$3.205(2)	\$4,807,500.00 \$

</TABLE>

(1) In addition, in accordance with Rule 416(a) under the Securities Act of 1933, as amended, this registration statement also covers such indeterminate number of Shares as may become subject to options under the Company's Amended and Restated 1993 Stock Option and Restricted Stock Purchase Plan as a result of the adjustment provisions thereof.

(2) Calculated solely for the purpose of determining the registration fee

pursuant to Rule 457 under the Securities Act of 1933, based upon the average of the high and low prices of the Shares as quoted on The Nasdaq National Market on April 30, 2001.

REGISTRATION STATEMENT FOR REGISTRATION  
OF ADDITIONAL SECURITIES ON FORM S-8

Incorporation by Reference

Hereby incorporated by reference is registrant's registration statement on Form S-8, registration no. 333-74197, filed in connection with the same plan on March 10, 1999 with the Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended.

Required Information Not in Prior Statement

Not applicable.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 5. Interests of Named Experts and Counsel

Yaakov Har-Oz, Esq. holds options to purchase 17,500 shares of Common Stock.

Item 8. Exhibits

Exhibit Number	Description
* 4.1	Specimen Certificate for Common Stock
+ 5.1	Opinion of Yaakov Har-Oz, Esq.
+23.1	Consent of Kesselman & Kesselman
+23.2	Consent of Kost Forer & Gabbay
+23.3	Consent of Yaakov Har-Oz, Esq. (contained in Exhibit 5.1)
+24.1	Powers of Attorney (included in the signature page)
**99.1	Amended and Restated 1993 Stock Option and Restricted Stock Purchase Plan

\* Incorporated by reference to Exhibit 4.3 to the Registrant's Registration Statement on Form S-1, No. 33-73256, which became effective on February 23, 1994.

\*\* Incorporated by reference to Exhibit 10.8 to the Registrant's Annual Report on Form 10-K for the fiscal year ended December 31, 1997.

+ Filed herewith.

II-1

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of New York, State of New York, on the 30th day of April, 2001.

ELECTRIC FUEL CORPORATION

By: /s/ Yehuda Harats

Yehuda Harats  
President and Chief Executive Officer

Know all men by these presents, that each individual whose signature appears below constitutes and appoints Yehuda Harats and Robert S. Ehrlich, and each of them, his true and lawful attorneys-in-fact and agents with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement and to file the same with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to

all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated:

<TABLE> <CAPTION>			
Signature	Title		Date
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<S> /s/ Yehuda Harats	<C> President, Chief Executive Officer and Director		<C> April 30, 2001
----- Yehuda Harats	(Principal Executive Officer)		-----
/s/ Robert S. Ehrlich	Chairman, Chief Financial Officer and Director		April 30, 2001
----- Robert S. Ehrlich	(Principal Financial Officer)		-----
/s/ Avihai Shen	Vice President - Finance		April 30, 2001
----- Avihai Shen	(Principal Accounting Officer)		-----
/s/ Dr. Jay M. Eastman	Director		April 30, 2001
----- Dr. Jay M. Eastman			-----
----- Leon S. Gross	Director		April , 2001
/s/ Lawrence M. Miller	Director		April 18, 2001
----- Lawrence M. Miller			-----
/s/ Jack E. Rosenfeld	Director		April 18, 2001
----- Jack E. Rosenfeld			-----
----- Jeff Kahn	Director		April , 2001
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Electric Fuel Corporation

[LOGO ELECTRIC FUEL] (R)

[LOGO INSTANT POWER]/TM/ Western Industrial Park  
P.O. Box 641, Beit Shemesh 99000, Israel  
Tel: +972-2-990-6666 Fax: +972-2-990-6688  
http://www.electric-fuel.com  
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Writer's direct dial: +972-2-990-6623  
Writer's e-mail: yaakovh@electric-fuel.com  
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Yaakov Har-Oz, Esq.  
Vice-President and General Counsel

April 30, 2001

Electric Fuel Corporation  
632 Broadway  
Suite 301  
New York, New York 10012

Re: Electric Fuel Corporation -- Registration of 1,500,000  
Shares of Common Stock described in Registration Statement  
on Form S-8  
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Ladies and Gentlemen:

I have acted as counsel to Electric Fuel Corporation, a Delaware corporation (the "Company"), in connection with the preparation and filing with the Securities and Exchange Commission of a registration statement on Form S-8 (the "Registration Statement") relating to 1,500,000 shares of the Company's common stock, par value \$0.01 per share (the "Shares"), issuable under the Company's Amended and Restated 1993 Stock Option and Restricted Stock Purchase Plan, as amended.

In rendering the opinion set forth below, I have examined copies of each of the Registration Statement, the certificate of incorporation and by-laws of the Company, and such certificates of public officials, corporate documents, records and other certificates, and we have reviewed such questions of law, as I have considered necessary and appropriate for the purposes of my opinion set forth below. As to any facts material to this opinion that I did not independently establish or verify, I have relied upon oral and written statements and representations of officers and other representatives of the Company and certificates of public officials, without any independent investigation on our part. I have assumed the authenticity of all documents submitted to me as originals, the genuineness of all signatures and the conformity to authentic originals of all documents submitted to me as copies.

Based on the foregoing, subject to the qualifications set forth herein, I am of the opinion as of the date hereof that the Shares, if and when paid for and issued, will be legally issued, fully paid and nonassessable.

-2-

[LOGO ELECTRIC FUEL] (R)

I am a member of the New York and Israel bars, and the opinions expressed herein are limited to questions of law arising under the internal laws of the States of New York and Israel, the federal law of the United States, and the corporation law of the State of Delaware, and I disclaim any opinion whatsoever with respect to matters governed by the laws of any other jurisdiction. The opinions expressed herein are based upon the laws in effect on the date hereof, and I assume no obligation to revise or supplement this opinion should any such laws be changed by legislative action, judicial decision, or otherwise.

I hereby consent to the filing of this opinion as an Exhibit to the Registration Statement. In giving such consent, I do not thereby admit that I come within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission promulgated thereunder.

Sincerely,

/s/ Yaakov Har-Oz  
Yaakov Har-Oz, Esq.

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CONSENT OF INDEPENDENT AUDITORS

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We hereby consent to the incorporation by reference in the Registration Statement on Form S-8 of Electric Fuel Corporation of our report dated February 26, 1999 relating to the financial statements for the three-year period ended the December 31, 1998, which report appears in the December 31, 1998 Annual Report on Form 10-K of Electric Fuel Corporation.

/s/ Kesselman & Kesselman

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Kesselman & Kesselman  
Certified Public Accountants (Israel)

Jerusalem, Israel  
April 18, 2001

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CONSENT OF INDEPENDENT AUDITORS

We consent to the incorporation by reference in the Registration Statement on Form S-8 pertaining to the 1993 Stock Option Plan of Electric Fuel Corporation of our report dated January 18, 2001 with respect to the consolidated financial statements of Electric Fuel Corporation for the two-year period ended December 31, 2000, included in the Annual Report (Form 10-K) for the year ended December 31, 2000.

/s/ Kost Forer and Gabbay

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Kost Forer & Gabbay

A Member of Ernst & Young International

Tel-Aviv, Israel

May 1, 2001