

SCHEDULE 13G

Amendment No. 1  
Esco Electronics Corporation  
common stock  
Cusip # 269030201  
Filing Fee: No

Cusip # 269030201  
Item 1: Reporting Person - FMR Corp. - (Tax ID: 04-2507163)  
Item 4: Commonwealth of Massachusetts  
Item 5: None  
Item 6: None  
Item 7: 1,078,600  
Item 8: None  
Item 9: 1,078,600  
Item 11: 9.91%  
Item 12: HC

Cusip # 269030201  
Item 1: Reporting Person - Edward C. Johnson 3d - (Tax ID:  
###-##-####)  
Item 4: United States of America  
Item 5: None  
Item 6: None  
Item 7: 1,078,600  
Item 8: None  
Item 9: 1,078,600  
Item 11: 9.91%  
Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS  
FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Item 1(a). Name of Issuer:

Esco Electronics Corporation

Item 1(b). Name of Issuer's Principal Executive Offices:

8100 West Florrisant Avenue  
St Louis, MO 63136

Item 2(a). Name of Person Filing:

FMR Corp.

Item 2(b). Address or Principal Business Office or, if None,  
Residence:

82 Devonshire Street, Boston, Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

269030201

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) and the person filing, FMR Corp., is a parent holding company in accordance with Section 240.13d-1(b)(ii)(G). (Note: See Item 7).

Item 4. Ownership

(a) Amount Beneficially Owned: 1,078,600

(b) Percent of Class: 9.91%

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

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

None

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

None

(iii) sole power to dispose or to direct the

disposition of: 1,078,600

(iv) shared power to dispose or to direct the

disposition of: None

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the common stock of Esco Electronics Corporation. The interest of one person, Fidelity Contrafund, an investment company registered under the Investment Company Act of 1940, in the common stock of Esco Electronics Corporation, amounted to 604,600 shares or 5.55% of the total outstanding common stock at December 31, 1993.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

See attached Exhibit(s) A and B.

Item 8. Identification and Classification of Members of the Group.

Not applicable, see attached Exhibit A.

Item 9. Notice of Dissolution of Group.

Not applicable.

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 purpose or effect.

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.

February 11, 1994

Date

/S/Arthur S. Loring  
Signature

Arthur S. Loring, Vice  
President  
Name/Title

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Pursuant to the instructions in Item 7 of Schedule 13G, Fidelity Management & Research Company ("Fidelity"), 82 Devonshire Street, Boston, Massachusetts 02109, a wholly-owned subsidiary of FMR Corp. and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 1,078,600 shares or 9.91% of the common stock outstanding of Esco Electronics Corporation ("the Company") as a result of acting as investment adviser to several investment companies registered under Section 8 of the Investment Company Act of 1940.

The ownership of one investment company, Fidelity Contrafund, amounted to 604,600 shares or 5.55% of the common stock outstanding. Fidelity Contrafund has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

Edward C. Johnson 3d, FMR Corp., through its control of Fidelity, and the Funds each has sole power to dispose of the 1,078,600 shares owned by the Funds.

Neither FMR Corp. nor Edward C. Johnson 3d, Chairman of FMR Corp., has the sole power to vote or direct the voting of the Shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the Shares under written guidelines established by the Funds' Boards of Trustees.

Edward C. Johnson 3d owns 34.0% of the outstanding voting common stock of FMR Corp. Mr. Johnson 3d is Chairman of FMR Corp. Various Johnson family members and trusts for the benefit of Johnson family members own FMR Corp. voting common stock. These Johnson family members, through their ownership of voting common stock, form a controlling group with respect to FMR Corp.

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RULE 13d-1(e) AGREEMENT

The undersigned persons, on February 11, 1994, agree and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the common stock of Esco Electronics Corporation at December 31, 1993.

FMR Corp.  
By /S/Arthur S. Loring  
Arthur S. Loring  
Vice President - Legal  
Edward C. Johnson 3d  
By /S/Arthur S. Loring  
Arthur S. Loring  
Under Power of Attorney  
dated 5/17/89  
On File with Schedule  
13G for  
Airborne Freight Corp.  
9/10/91  
Fidelity Management & Research  
Company  
By /S/Arthur S. Loring  
Arthur S. Loring  
Sr. V.P. and General

Counsel  
Fidelity Contrafund  
By /S/Arthur S. Loring  
Arthur S. Loring  
Secretary