

SCHEDULE 13G

Amendment No. 2
Photronics Incorporated
Common Stock
Cusip #719405102

Cusip #719405102
Item 1: Reporting Person - FMR Corp.
Item 4: Delaware
Item 5: 378,400
Item 6: 0
Item 7: 2,573,490
Item 8: 0
Item 9: 2,573,490
Item 11: 7.898%
Item 12: HC

Cusip #719405102
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 2,573,490
Item 8: 0
Item 9: 2,573,490
Item 11: 7.898%
Item 12: IN

Cusip #719405102
Item 1: Reporting Person - Abigail P. Johnson
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 2,573,490
Item 8: 0
Item 9: 2,573,490
Item 11: 7.898%
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:
Photronics Incorporated

Item 1(b). Name of Issuer's Principal Executive Offices:
15 Secor Road
Brookfield, CT 06804

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:

719405102

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: 2,573,490

(b) Percent of Class: 7.898%

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

(i) sole power to vote or to direct the vote: 378,400

(ii) shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of: 2,573,490

(iv) shared power to dispose or to direct the disposition of: 0

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 Photronics Incorporated. No one person's interest in the Common Stock of Photronics Incorporated is more than five percent of the total outstanding Common Stock.

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, 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 Schedule 13G in connection with FMR Corp.'s beneficial ownership of the Common Stock of Photronics Incorporated at June 30, 2004 is true, complete and correct.

July 12, 2004
Date

/s/Eric D. Roiter
Signature

Eric D. Roiter
Duly authorized under Power of Attorney
dated December 30, 1997 by and on behalf
of FMR Corp. and its direct and indirect
subsidiaries

SCHEDULE 13G - TO BE INCLUDED IN
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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
2,195,090 shares or 6.737% of the Common Stock
outstanding of Photronics Incorporated ("the Company") as
a result of acting as investment adviser to various investment
companies registered under Section 8 of the Investment
Company Act of 1940.

Edward C. Johnson 3d, FMR Corp., through its
control of Fidelity, and the funds each has sole power to
dispose of the 2,195,090 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.

Fidelity Management Trust Company, 82 Devonshire
Street, Boston, Massachusetts 02109, a wholly-owned
subsidiary of FMR Corp. and a bank as defined in Section
3(a)(6) of the Securities Exchange Act of 1934, is the
beneficial owner of 378,400 shares or 1.161% of the
Common Stock outstanding of the Company as a result of its
serving as investment manager of the institutional account(s).

Edward C. Johnson 3d and FMR Corp., through its
control of Fidelity Management Trust Company, each has
sole dispositive power over 378,400 shares and sole power to
vote or to direct the voting of 378,400 shares of Common
Stock owned by the institutional account(s) as reported
above.

Members of the Edward C. Johnson 3d family are the
predominant owners of Class B shares of common stock of
FMR Corp., representing approximately 49% of the voting
power of FMR Corp. Mr. Johnson 3d owns 12.0% and
Abigail Johnson owns 24.5% of the aggregate outstanding
voting stock of FMR Corp. Mr. Johnson 3d is Chairman of
FMR Corp. and Abigail P. Johnson is a Director of FMR
Corp. The Johnson family group and all other Class B
shareholders have entered into a shareholders' voting
agreement under which all Class B shares will be voted in
accordance with the majority vote of Class B shares.
Accordingly, through their ownership of voting common
stock and the execution of the shareholders' voting
agreement, members of the Johnson family may be deemed,
under the Investment Company Act of 1940, to form a
controlling group with respect to FMR Corp.

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

The undersigned persons, on July 12, 2004, 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 Photronics Incorporated at June 30, 2004.

FMR Corp.

By /s/ Eric D. Roiter
Eric D. Roiter
Duly authorized under Power of Attorney
dated December 30, 1997, by and on behalf
of FMR Corp. and its direct and indirect
subsidiaries

Edward C. Johnson 3d

By /s/ Eric D. Roiter
Eric D. Roiter
Duly authorized under Power of Attorney
dated December 30, 1997, by and on behalf
of Edward C. Johnson 3d

Abigail P. Johnson

By /s/ Eric D. Roiter
Eric D. Roiter
Duly authorized under Power of Attorney
dated December 30, 1997, by and on behalf
of Abigail P. Johnson

Fidelity Management & Research Company

By /s/ Eric D. Roiter
Eric D. Roiter
Senior V.P. and General Counsel