

SECURITIES AND EXCHANGE COMMISSION

FORM SC 13G

Schedule filed to report acquisition of beneficial ownership of 5% or more of a class of equity securities by passive investors and certain institutions

Filing Date: **2001-02-02**
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SUBJECT COMPANY

OSI SYSTEMS INC

CIK: **1039065** | IRS No.: **330238801** | State of Incorporation: **CA** | Fiscal Year End: **0630**
Type: **SC 13G** | Act: **34** | File No.: **005-53245** | Film No.: **1523281**
SIC: **3674** Semiconductors & related devices

Mailing Address
12525 CHADRON AVENUE
HAWTHORNE CA 90250

Business Address
12525 CHADRON AVE
HAWTHORNE CA 90250
3109780516

FILED BY

DIMENSIONAL FUND ADVISORS INC

CIK: **354204** | IRS No.: **22370029** | State of Incorporation: **IL** | Fiscal Year End: **1231**
Type: **SC 13G**

Mailing Address
1299 OCEAN AVENUE
11TH FLOOR
SANTA MONICA CA 90401

Business Address
1299 OCEAN AVE
11TH FLOOR
SANTA MONICA CA 90401
3103958005

SCHEDULE 13G
(12/31/2000)

OSI SYSTEMS INC
Cusip # 671044105
New Filing

Cusip # 671044105

Item 1: REPORTING PERSONS
Dimensional Fund Advisors Inc. (Tax ID: 22-2370029)

Item 4: CITIZENSHIP
Delaware Corporation

Item 5: SOLE VOTING POWER
546,100 ** see Note 1 **

Item 6: SHARED VOTING POWER --
None

Item 7: SOLE DISPOSITIVE POWER --
546,100 ** see Note 1 **

Item 8: SHARED DISPOSITIVE POWER --
0

Item 9: AGGREGATE AMOUNT BENEFICIALLY OWNED --
546,100 ** see Note 1 **

Item 11: PERCENT OF CLASS REPRESENTED BY LINE 9 --
5.84

Item 12: TYPE OF REPORTING PERSON --
IA

ITEM 1(A). NAME OF ISSUER

OSI SYSTEMS INC

ITEM 1(B). ADDRESS OF ISSUER

12525 Chadron Ave
Hawthorne, CA 90250-4807

ITEM 2(A). NAME OF PERSON FILING

Dimensional Fund Advisors

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE

1299 Ocean Avenue, 11th Floor, Santa Monica, CA 90401

ITEM 2(C). CITIZENSHIP

A Delaware Corporation

ITEM 2(D). TITLE OF CLASS OF SECURITIES

Common Stock

ITEM 2(E). CUSIP NUMBER

671044105

ITEM 3. This statement is filed pursuant to Rule 13d-1 (b), or 13d-2 (b) and the person filing is an investment advisor registered under section 203 of the Investment Advisors Act of 1940.

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ITEM 4. OWNERSHIP

ITEM 4(a). AMOUNT BENEFICIALLY OWNED

546,100 ** see Note 1 **

ITEM 4(b). PERCENT OF CLASS

5.84

ITEM 4(c). NUMBER OF SHARE AS TO WHICH SUCH PERSON HAS:

(i). SOLE POWER TO VOTE OR DIRECT THE VOTE --

546,100 ** see Note 1 **

(ii). SHARED POWER TO VOTE OR TO DIRECT THE VOTE --

None

(iii). SOLE POWER TO DISPOSE OR TO DIRECT DISPOSITION OF --

546,100 ** see Note 1 **

(iv). SHARE POWER TO DISPOSE OR TO DIRECT DISPOSITION OF --

None

** Note 1 **

Dimensional Fund Advisors Inc. ("Dimensional"), an investment advisor registered under Section 203 of the Investment Advisors Act of 1940, furnishes investment advice to four investment companies registered under the Investment Company Act of 1940, and serves as investment manager to certain other commingled group trusts and separate accounts. These investment companies, trusts and accounts are the "Funds". In its role as investment adviser or manager, Dimensional possesses voting and/or investment power over the securities of the Issuer described in this schedule that are owned the Funds. All securities reported in this schedule are owned by the Funds. Dimensional disclaims beneficial ownership of such securities.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

If this statement is being filed to report the fact that as of 12/31/2000 the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: []

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

All Securities reported in this schedule are owned by advisory clients of Dimensional Fund Advisors Inc., no one of which to the knowledge of Dimensional Fund Advisors Inc. owns more than 5% of the class. Dimensional Fund Advisors Inc disclaims beneficial ownership of all such securities.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not Applicable

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Not Applicable

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 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.

Signature

Friday, February 2, 2001

Michael T. Scardina
Vice President and Chief Financial Officer