

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934
(AMENDMENT NO. . . .)*

OSI SYSTEMS, INC.

(Name of Issuer)

COMMON STOCK, no par value

(Title of Class of Securities)

671044 10 5

(CUSIP Number)

*The remainder of this cover page shall be filled 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 section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1 NAME OF REPORTING PERSON
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Mohini Syal

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

United States

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5 SOLE VOTING POWER

0

6 SHARED VOTING POWER

708,584

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

708,584

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

708,584

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

7.4%

12 TYPE OF REPORTING PERSON*

IN

*SEE INSTRUCTION BEFORE FILLING OUT!

ITEM 1. NAME AND ADDRESS OF ISSUER

- (a) This Schedule 13G relates to the Common Stock, no par value, of OSI Systems, Inc., a California corporation (the "Issuer").
- (b) The address of the Issuer's principal executive office is 12525 Chadron Avenue, Hawthorne, California 90250.

ITEM 2. NAME AND ADDRESS OF PERSON FILING; TITLE OF SECURITIES

- (a) This Schedule 13G is filed by Mohini Syal.
- (b) The filing person's business address is 24205 Hawthorne Blvd., Torrance, California 90505.
- (c) Mohini Syal is a United States citizen.
- (d) The class of securities to which this Schedule 13G relates is the Common Stock, no par value, of the Issuer.
- (e) The CUSIP number of such securities is 671044 10 5.

ITEM 3. STATEMENTS FILED PURSUANT TO RULES 13D-1(B) OR 13D-2(B)

This statement is not filed pursuant to Rule 13d-1(b) or 13d-2(b).

ITEM 4. OWNERSHIP

- (a) As of December 31, 1997, the filing person beneficially owned 708,584 shares.
- (b) Such ownership constituted 7.4% of the class.
- (c) As to such shares, the number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote is 0,
 - (ii) shared power to vote or to direct the vote is 708,584,
 - (iii) sole power to dispose or to direct the disposition of is 0, and
 - (iv) shared power to dispose or to direct the disposition of is 708,584.

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

Of the 708,584 shares beneficially owned by Mohini Syal, 254,951 shares and 254,951 shares are owned by The Deepika Chopra Trust UDT dated July 17, 1987 and The Chandini Chopra Trust UDT dated July 17, 1987, respectively, and 198,682 shares are owned by the Syal Trust. Mohini Syal is the co-trustee of all such trusts. Deepika Chopra and Chandini Chopra are the grand-daughters of Mohini Syal. Such other persons have the right to receive dividends from, and proceeds from the sale of, 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

This Schedule 13G is not filed pursuant to Rule 13d-1(b).

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 13, 1998

/s/ Mohini Syal

Mohini Syal

Note: Six copies of this statement, including all exhibits, should be filed with the Commission

ATTENTION: INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACT CONSTITUTE FEDERAL CRIMINAL VIOLATIONS (SEE 18 U.S.C. 1001)