

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM S-8

REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

OSI SYSTEMS, INC.

(Exact name of registrant as specified in its charter)

California
(State of Incorporation)

33-0238801
(I.R.S. Employer Identification Number)

12525 Chadron Avenue
Hawthorne, California 90250
(Address of Principal Executive Offices) (Zip Code)

Amended 1997 Stock Option Plan
(Full title of the plan)

Deepak Chopra
President and Chief Executive Officer
12525 Chadron Avenue
Hawthorne, California 90250
(310) 978-0516
(Name, address and telephone number for service)

Copies to:
Gerald M. Chizever, Esq.
Lawrence S. Venick, Esq.
Loeb & Loeb LLP
10100 Santa Monica Boulevard, Suite 2200
Los Angeles, California 90067
(310) 282-2000

CALCULATION OF REGISTRATION FEE

| Title of Securities to be Registered | Amount to be Registered (1) | Proposed Maximum Offering Price per Share (2) | Proposed Maximum Aggregate Offering Price (2) | Amount of Registration Fee |
|--------------------------------------|--------------------------------|---|---|-------------------------------|
| Common Stock, no par value per share | 1,000,000 | \$16.90 | \$16,900,000 | \$1,989.13 |

- (1) Plus such indeterminate number of additional shares of Common Stock as may be required in the event of a stock dividend, reverse stock split or combination of shares, recapitalization or other change in the Registrant's capital stock.
- (2) Estimated pursuant to Rule 457(h) under the Securities Act of 1933, as amended, solely for the purpose of calculating the registration fee, based upon the average of the high and low sales prices of the Registrant's Common Stock as reported on the Nasdaq National Market on February 7, 2005.

INTRODUCTION

This Registration Statement on Form S-8 is being filed for the purpose of registering an additional 1,000,000 shares of the Common Stock of OSI Systems, Inc. (the "Company") to be issued pursuant to the Company's Amended 1997 Stock Option Plan (the "Plan").

In accordance with Section E of the General Instructions to Form S-8, the Registration Statements on Form S-8 filed with the Securities and Exchange Commission on January 28, 1998 (File No. 333-45049) and June 16, 2003 (File No. 333-106176) are hereby incorporated by reference.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 8. Exhibits

| <u>Exhibit Number</u> | <u>Documents</u> |
|---------------------------|---|
| 4.1 | Amended 1997 Stock Option Plan |
| 5.1 | Opinion of Loeb & Loeb LLP, Counsel to Company |
| 23.1 | Consent of Loeb & Loeb LLP (contained in Exhibit 5.1) |
| 23.2 | Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm |
| 24.1 | Power of Attorney (included on signature page) |

POWER OF ATTORNEY

Each of the undersigned hereby constitutes and appoints Messrs. Deepak Chopra and Anuj Wadhawan, and each of them, as his attorneys-in-fact and agents, with full power of substitution and resubstitution for him or her in any and all capacities, to sign any and all amendments or post-effective amendments to this Registration Statement, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto each of such attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary in connection with such matters and hereby ratifying and confirming all that each of such attorneys-in-fact and agents or his substitutes may 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 below by the following persons in the capacities and on the dates indicated.

| <u>Signature</u> | <u>Title</u> | <u>Date</u> |
|---|--|------------------|
| <u>/S/ DEEPAK CHOPRA</u> Deepak Chopra | Chairman of the Board, President and Chief Executive Officer (Principal Executive Officer) | February 9, 2005 |
| <u>/S/ ANUJ WADHAWAN</u> Anuj Wadhawan | Chief Financial Officer (Principal Financial and Accounting Officer) | February 9, 2005 |
| <u>/S/ AJAY MEHRA</u> Ajay Mehra | Executive Vice President, President, Security Products Group, and Director | February 9, 2005 |
| <u>/S/ STEVEN C. GOOD</u> Steven C. Good | Director | February 9, 2005 |
| <u>/S/ MEYER LUSKIN</u> Meyer Luskin | Director | February 9, 2005 |
| <u>/S/ CHAND R. VISWANATHAN</u> Chand R. Viswanathan | Director | February 9, 2005 |

OSI SYSTEMS, INC.
REGISTRATION STATEMENT ON FORM S-8

INDEX TO EXHIBITS

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| 24.1 | Power of Attorney (included on signature page) |

AMENDED
1997 STOCK OPTION PLAN
OF
OSI SYSTEMS, INC.

1. PURPOSES OF THE PLAN

The purposes of the Amended Stock Option Plan (the "Plan") of OSI Systems, Inc., a California corporation (the "Company"), are to:

- (a) Encourage selected employees, directors and consultants to improve operations and increase profits of the Company;
- (b) Encourage selected employees, directors and consultants to accept or continue employment or association with the Company or its Affiliates; and
- (c) Increase the interest of selected employees, directors and consultants in the Company's welfare through participation in the growth in value of the common stock of the Company (the "Common Stock").

Options granted under this Plan ("Options") may be "incentive stock options" ("ISOs") intended to satisfy the requirements of Section 422 of the Internal Revenue Code of 1986, as amended, and the regulations thereunder (the "Code"), or "nonqualified options" ("NQOs").

2. ELIGIBLE PERSONS

Every person who at the date of grant of an Option is an employee of the Company or of any Affiliate (as defined below) of the Company is eligible to receive NQOs or ISOs under this Plan. Every person who at the date of grant is a consultant to, or non-employee director of, the Company or any Affiliate (as defined below) of the Company is eligible to receive NQOs under this Plan. The term "Affiliate" as used in the Plan means a parent or subsidiary corporation as defined in the applicable provisions (currently Sections 424(e) and (f), respectively) of the Code. The term "employee" includes an officer or director who is an employee of the Company. The term "consultant" includes persons employed by, or otherwise affiliated with, a consultant.

3. STOCK SUBJECT TO THIS PLAN; MAXIMUM NUMBER OF GRANTS

Subject to the provisions of Section 6.1.1 of the Plan, the total number of shares of stock which may be issued under Options granted pursuant to this Plan shall not exceed 3,350,000 shares of Common Stock (which gives effect to a 1.5- for-1 stock split of the Common Stock (the "Stock Split") effected in June 1997). The shares covered by the portion of any grant under the Plan which expires unexercised shall become available again for grants under the Plan. No eligible person shall be granted Options during any twelve-month period covering more than 425,000 shares (which gives effect to the Stock Split effected in June 1997).

4. ADMINISTRATION

(a) The Plan shall be administered by the Board of Directors of the Company (the "Board") or by a committee (the "Committee") to which administration of the Plan, or of part of the Plan, is delegated by the Board (in either case, the "Administrator"). The Board shall appoint and remove members of the Committee in its discretion in accordance with applicable laws. If necessary in order to comply with Rule 16b-3 under the Exchange Act and Section 162(m) of the Code, the Committee shall, in the Board's discretion, be comprised solely of "non-employee directors" within the meaning of said Rule 16b-3 and

“outside directors” within the meaning of Section 162(m) of the Code. The foregoing notwithstanding, the Administrator may delegate nondiscretionary administrative duties to such employees of the Company as it deems proper and the Board, in its absolute discretion, may at any time and from time to time exercise any and all rights and duties of the Administrator under the Plan.

(b) Subject to the other provisions of this Plan, the Administrator shall have the authority, in its discretion: (i) to grant Options; (ii) to determine the fair market value of the Common Stock subject to Options; (iii) to determine the exercise price of Options granted; (iv) to determine the persons to whom, and the time or times at which, Options shall be granted, and the number of shares subject to each Option; (v) to interpret this Plan; (vi) to prescribe, amend, and rescind rules and regulations relating to this Plan; (vii) to determine the terms and provisions of each Option granted (which need not be identical), including but not limited to, the time or times at which Options shall be exercisable; (viii) with the consent of the optionee, to modify or amend any Option; (ix) to defer (with the consent of the optionee) the exercise date of any Option; (x) to authorize any person to execute on behalf of the Company any instrument evidencing the grant of an Option; and (xi) to make all other determinations deemed necessary or advisable for the administration of this Plan. The Administrator may delegate nondiscretionary administrative duties to such employees of the Company as it deems proper.

(c) All questions of interpretation, implementation, and application of this Plan shall be determined by the Administrator. Such determinations shall be final and binding on all persons.

5. GRANTING OF OPTIONS; OPTION AGREEMENT

(a) No Options shall be granted under this Plan after 10 years from the date of adoption of this Plan by the Board.

(b) Each Option shall be evidenced by a written stock option agreement, in form satisfactory to the Administrator, executed by the Company and the person to whom such Option is granted.

(c) The stock option agreement shall specify whether each Option it evidences is an NQO or an ISO.

(d) Subject to Section 6.3.3 with respect to ISOs, the Administrator may approve the grant of Options under this Plan to persons who are expected to become employees, directors or consultants of the Company, but are not employees, directors or consultants at the date of approval, and the date of approval shall be deemed to be the date of grant unless otherwise specified by the Administrator.

6. TERMS AND CONDITIONS OF OPTIONS

Each Option granted under this Plan shall be subject to the terms and conditions set forth in Section 6.1. NQOs shall be also subject to the terms and conditions set forth in Section 6.2, but not those set forth in Section 6.3. ISOs shall also be subject to the terms and conditions set forth in Section 6.3, but not those set forth in Section 6.2.

6.1 Terms and Conditions to Which All Options Are Subject. All Options granted under this Plan shall be subject to the following terms and conditions:

6.1.1 Changes in Capital Structure. Subject to Section 6.1.2, if the stock of the Company is changed by reason of a stock split, reverse stock split, stock dividend, or recapitalization, combination or reclassification, appropriate adjustments shall be made by the Board in (a) the number and class of shares of stock subject to this Plan and each Option outstanding under this Plan, and (b) the exercise price of each outstanding Option; provided, however, that the Company shall not be required to issue fractional shares as a result of any such adjustments. Each such adjustment shall be subject to approval by the Board in its sole discretion.

6.1.2 Corporate Transactions. In the event of the proposed dissolution or liquidation of the Company, the Administrator shall notify each optionee at least 30 days prior to such proposed action. To the extent not previously exercised, all Options will terminate immediately prior to the consummation of such proposed action; provided, however, that the Administrator, in the exercise of his sole discretion, may permit exercise of any Options prior to their termination, even if such Options were not otherwise exercisable. In the event of a merger or consolidation of the Company with or into another corporation or entity in which the Company does not survive, or in the event of a sale of all or substantially all of the assets of the Company in which the shareholders of the Company receive securities of the acquiring entity or an affiliate thereof, all Options shall be assumed or equivalent options shall be substituted by the successor corporation (or other entity) or a parent or subsidiary of such successor corporation (or other entity); provided, however, that if such successor does not agree to assume the Options or to substitute equivalent options therefor, the Administrator, in the exercise of its sole discretion, may permit the exercise of any of the Options prior to consummation of such event, even if such Options were not otherwise exercisable.

6.1.3 Time of Option Exercise. Subject to Section 5 and Section 6.3.4, Options granted under this Plan shall be exercisable (a) immediately as of the effective date of the stock option agreement granting the Option, or (b) in accordance with a schedule as may be set by the Administrator (in any case, the "Vesting Base Date") and specified in the written stock option agreement relating to such Option. In any case, no Option shall be exercisable until a written stock option agreement in form satisfactory to the Company is executed by the Company and the optionee. Notwithstanding the foregoing, to the extent required by applicable laws, rules and regulations, the right to exercise Options granted pursuant to this Plan shall vest at the rate of at least 20% per year from the date of grant.

6.1.4 Option Grant Date. The date of grant of an Option under this Plan shall be the date as of which the Administrator approves the grant.

6.1.5 Nontransferability of Option Rights. Except with the express written approval of the Administrator which approval the Administrator is authorized to give only with respect to NQOs, no Option granted under this Plan shall be assignable or otherwise transferable by the optionee except by will or by the laws of descent and distribution. During the life of the optionee, an Option shall be exercisable only by the optionee.

6.1.6 Payment. Except as provided below, payment in full, in cash, shall be made for all stock purchased at the time written notice of exercise of an Option is given to the Company, and proceeds of any payment shall constitute general funds of the Company. The Administrator, in the exercise of its absolute discretion after considering any tax, accounting and financial consequences, may authorize any one or more of the following additional methods of payment:

(a) Acceptance of the optionee's full recourse promissory note for all or part of the Option price, payable on such terms and bearing such interest rate as determined by the Administrator (but in no event less than the minimum interest rate specified under the Code at which no additional interest would be imputed), which promissory note may be either secured or unsecured in such manner as the Administrator shall approve (including, without limitation, by a security interest in the shares of the Company);

(b) Subject to the discretion of the Administrator and the terms of the stock option agreement granting the Option, delivery by the optionee of shares of Common Stock already owned by the optionee for all or part of the Option price, provided the fair market value (determined as set forth in Section 6.1.10) of such shares of Common Stock is equal on the date of exercise to the Option price, or such portion thereof as the optionee is authorized to pay by delivery of such stock; and

(c) Subject to the discretion of the Administrator, through the surrender of shares of Common Stock then issuable upon exercise of the Option, provided the fair market value (determined as set forth in Section 6.1.10) of such shares of Common Stock is equal on the date of exercise to the Option price, or such portion thereof as the optionee is authorized to pay by surrender of such stock.

(d) By means of so-called cashless exercises as permitted under applicable rules and regulations of the Securities and Exchange Commission and the Federal Reserve Board.

6.1.7 Termination of Employment. If for any reason other than death or permanent and total disability, an optionee ceases to be employed by the Company or any of its Affiliates (such event being called a "Termination"), Options held at the date of Termination (to the extent then exercisable) may be exercised in whole or in part at any time within three months of the date of such Termination, or such other period of not less than 30 days after the date of such Termination as is specified in the Option Agreement or by amendment thereof (but in no event after the Expiration Date); provided, however, that if such exercise of the Option would result in liability for the optionee under Section 16(b) of the Exchange Act, then such three-month period automatically shall be extended until the tenth day following the last date upon which optionee has any liability under Section 16(b) (but in no event after the Expiration Date). If an optionee dies or becomes permanently and totally disabled (within the meaning of Section 22(e)(3) of the Code) while employed by the Company or an Affiliate or within the period that the Option remains exercisable after Termination, Options then held (to the extent then exercisable) may be exercised, in whole or in part, by the optionee, by the optionee's personal representative or by the person to whom the Option is transferred by devise or the laws of descent and distribution, at any time within six months after the death or six months after the permanent and total disability of the optionee or any longer period specified in the Option Agreement or by amendment thereof (but in no event after the Expiration Date). For purposes of this Section 6.1.7, "employment" includes service as a director or as a consultant. For purposes of this Section 6.1.7, an optionee's employment shall not be deemed to terminate by reason of sick leave, military leave or other leave of absence approved by the Administrator, if the period of any such leave does not exceed 90 days or, if longer, if the optionee's right to reemployment by the Company or any Affiliate is guaranteed either contractually or by statute.

6.1.8 Withholding and Employment Taxes. At the time of exercise of an Option and as a condition thereto, or at such other time as the amount of such obligations becomes determinable (the "Tax Date"), the optionee shall remit to the Company in cash all applicable federal and state withholding and employment taxes. Such obligation to remit may be satisfied, if authorized by the Administrator in its sole discretion, after considering any tax, accounting and financial consequences, by the optionee's (i) delivery of a promissory note in the required amount on such terms as the Administrator deems appropriate, (ii) tendering to the Company previously owned shares of Stock or other securities of the Company with a fair market value equal to the required amount, or (iii) agreeing to have shares of Common Stock (with a fair market value equal to the required amount) which are acquired upon exercise of the Option withheld by the Company.

6.1.9 Other Provisions. Each Option granted under this Plan may contain such other terms, provisions, and conditions not inconsistent with this Plan as may be determined by the Administrator, and each ISO granted under this Plan shall include such provisions and conditions as are necessary to qualify the Option as an "incentive stock option" within the meaning of Section 422 of the Code.

6.1.10 Determination of Value. For purposes of the Plan, the fair market value of Common Stock or other securities of the Company shall be determined as follows:

(a) If the stock of the Company is regularly quoted by a recognized securities dealer, and selling prices are reported, its fair market value shall be the closing price of such stock on the date the value is to be determined, but if selling prices are not reported, its fair market value shall be the mean between the high bid and low asked prices for such stock on the date the value is to be determined (or if there are no quoted prices for the date of grant, then for the last preceding business day on which there were quoted prices).

(b) In the absence of an established market for the stock, the fair market value thereof shall be determined in good faith by the Administrator, with reference to the Company's net worth, prospective earning power, dividend-paying capacity, and other relevant factors, including the goodwill of the

Company, the economic outlook in the Company's industry, the Company's position in the industry, the Company's management, and the values of stock of other corporations in the same or a similar line of business.

6.1.11 Option Term. Subject to Section 6.3.4, no Option shall be exercisable more than 10 years after the date of grant, or such lesser period of time as is set forth in the stock option agreement (the end of the maximum exercise period stated in the stock option agreement is referred to in this Plan as the "Expiration Date").

6.2 Terms and Conditions to Which Only NQOs Are Subject. Options granted under this Plan which are designated as NQOs shall be subject to the following terms and conditions:

6.2.1 Exercise Price. (a) Except as set forth in Section 6.2.1(b), the exercise price of a NQO shall be not less than 85% of the fair market value (determined in accordance with Section 6.1.10) of the stock subject to the Option on the date of grant.

(b) To the extent required by applicable laws, rules and regulations, the exercise price of a NQO granted to any person who owns, directly or by attribution under the Code (currently Section 424(d)), stock possessing more than ten percent of the total combined voting power of all classes of stock of the Company or of any Affiliate (a "Ten Percent Shareholder") shall in no event be less than 110% of the fair market value (determined in accordance with Section 6.1.10) of the stock covered by the Option at the time the Option is granted.

6.3 Terms and Conditions to Which Only ISOs Are Subject. Options granted under this Plan which are designated as ISOs shall be subject to the following terms and conditions:

6.3.1 Exercise Price. (a) Except as set forth in Section 6.3.1(b), the exercise price of an ISO shall be determined in accordance with the applicable provisions of the Code and shall in no event be less than the fair market value (determined in accordance with Section 6.1.10) of the stock covered by the Option at the time the Option is granted.

(b) The exercise price of an ISO granted to any Ten Percent Shareholder shall in no event be less than 110% of the fair market value (determined in accordance with Section 6.1.10) of the stock covered by the Option at the time the Option is granted.

6.3.2 Disqualifying Dispositions. If stock acquired by exercise of an ISO granted pursuant to this Plan is disposed of in a "disqualifying disposition" within the meaning of Section 422 of the Code (a disposition within two years from the date of grant of the Option or within one year after the transfer such stock on exercise of the Option), the holder of the stock immediately before the disposition shall promptly notify the Company in writing of the date and terms of the disposition and shall provide such other information regarding the Option as the Company may reasonably require.

6.3.3 Grant Date. If an ISO is granted in anticipation of employment as provided in Section 5(d), the Option shall be deemed granted, without further approval, on the date the grantee assumes the employment relationship forming the basis for such grant, and, in addition, satisfies all requirements of this Plan for Options granted on that date.

6.3.4 Term. Notwithstanding Section 6.1.11, no ISO granted to any Ten Percent Shareholder shall be exercisable more than five years after the date of grant.

7. MANNER OF EXERCISE

(a) An optionee wishing to exercise an Option shall give written notice to the Company at its principal executive office, to the attention of the officer of the Company designated by the Administrator, accompanied by payment of the exercise price and withholding taxes as provided in Sections 6.1.6 and

6.1.8. The date the Company receives written notice of an exercise hereunder accompanied by payment of the exercise price will be considered as the date such Option was exercised.

(b) Promptly after receipt of written notice of exercise of an Option and the payments called for by Section 7(a), the Company shall, without stock issue or transfer taxes to the optionee or other person entitled to exercise the Option, deliver to the optionee or such other person a certificate or certificates for the requisite number of shares of stock. An optionee or permitted transferee of the Option shall not have any privileges as a shareholder with respect to any shares of stock covered by the Option until the date of issuance (as evidenced by the appropriate entry on the books of the Company or a duly authorized transfer agent) of such shares.

8. EMPLOYMENT OR CONSULTING RELATIONSHIP

Nothing in this Plan or any Option granted hereunder shall interfere with or limit in any way the right of the Company or of any of its Affiliates to terminate any optionee's employment or consulting at any time, nor confer upon any optionee any right to continue in the employ of, or consult with, the Company or any of its Affiliates.

9. CONDITIONS UPON ISSUANCE OF SHARES

Shares of Common Stock shall not be issued pursuant to the exercise of an Option unless the exercise of such Option and the issuance and delivery of such shares pursuant thereto shall comply with all relevant provisions of law, including, without limitation, the Securities Act of 1933, as amended (the "Securities Act").

10. NONEXCLUSIVITY OF THE PLAN

The adoption of the Plan shall not be construed as creating any limitations on the power of the Company to adopt such other incentive arrangements as it may deem desirable, including, without limitation, the granting of stock options other than under the Plan.

11. MARKET STANDOFF

Each optionee, if so requested by the Company or any representative of the underwriters in connection with any registration of the offering of any securities of the Company under the Securities Act, shall not sell or otherwise transfer any shares of Common Stock acquired upon exercise of Options during the 180-day period following the effective date of a registration statement of the Company filed under the Securities Act; provided, however, that such restriction shall apply only to the first registration statement of the Company to become effective under the Securities Act after the date of adoption of this Plan which includes securities to be sold on behalf of the Company to the public in an underwritten public offering under the Securities Act. The Company may impose stop-transfer instructions with respect to securities subject to the foregoing restriction until the end of such 180-day period.

12. AMENDMENTS TO PLAN

The Board may at any time amend, alter, suspend or discontinue this Plan. Without the consent of an optionee, no amendment, alteration, suspension or discontinuance may adversely affect outstanding Options except to conform this Plan and ISOs granted under this Plan to the requirements of federal or other tax laws relating to incentive stock options. No amendment, alteration, suspension or discontinuance shall require shareholder approval unless (a) shareholder approval is required to preserve incentive stock option treatment for federal income tax purposes or (b) the Board otherwise concludes that shareholder approval is advisable.

13. EFFECTIVE DATE OF PLAN; TERMINATION

This Plan shall become effective upon adoption by the Board provided, however, that no Option shall be exercisable unless and until written consent of the shareholders of the Company, or approval of shareholders of the Company voting at a validly called shareholders' meeting, is obtained within twelve months after adoption by the Board. If such shareholder approval is not obtained within such time, Options granted hereunder shall terminate and be of no force and effect from and after expiration of such twelve-month period. Options may be granted and exercised under this Plan only after there has been compliance with all applicable federal and state securities laws. This Plan (but not Options previously granted under this Plan) shall terminate within ten years from the date of its adoption by the Board.

14. DELIVERY OF FINANCIAL STATEMENTS

To the extent required by applicable laws, rules and regulations, the Company shall deliver to each optionee financial statements of the Company at least annually while such optionee holds an outstanding Option.

LOEB & LOEB LLP
10100 SANTA MONICA BOULEVARD, SUITE 2200
LOS ANGELES, CA 90067
(310) 282-2000

February 7, 2005

OSI Systems, Inc.
12525 Chadron Avenue
Hawthorne, California 90250

Re: Registration Statement on Form S-8

Ladies and Gentlemen:

We have acted as securities counsel to OSI Systems, Inc. (the "Company") in connection with the preparation and filing with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the "Securities Act"), of a Registration Statement on Form S-8 (the "Registration Statement") which relates to the issuance of 1,000,000 shares of Common Stock of the Company (the "Shares") pursuant to OSI Systems, Inc. Amended 1997 Stock Option Plan (the "Plan").

This opinion is being furnished in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act.

In connection with this opinion, we have examined and are familiar with originals or copies, certified or otherwise identified to our satisfaction, of such documents, corporate records and other instruments as we have deemed necessary or appropriate as a basis for the opinions set forth herein, including (i) the Registration Statement of the Company filed with the Securities and Exchange Commission; (ii) the Articles of Incorporation and the Bylaws of the Company; (iii) the form of Common Stock Certificate; (v) copies of certain resolutions adopted by the Board of Directors of the Company relating to the filing of the Registration Statement and any amendments of supplements thereto and related matters; and (vi) such other documents as we have deemed necessary or appropriate as a basis for the opinions set forth below.

In our examination, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as certified or photostatic copies and the authenticity of the originals of such latter documents. In making our examination of documents executed by parties other than the Company, we have assumed that such parties had the power, corporate or other, to enter into and perform all obligations thereunder and have also assumed the due authorization by all requisite action, corporate or other, and execution and delivery by such parties of such documents and the validity and binding effect thereof. As to any facts material to the opinions expressed herein which were not independently established or verified, we have relied upon oral or written statements and representations of officers and other representatives of the Company and others.

Members of our firm are admitted to the bar in the State of California, and we do not express any opinion as to the laws of any jurisdiction other than the corporate laws of the State of California and the laws of the United States of America to the extent referred to specifically herein.

Based on the foregoing, it is our opinion that, subject to effectiveness with the Securities and Exchange Commission of the Registration Statement and to registration or qualification under the securities laws of the states in which securities may be sold, the Shares are duly and validly authorized and, when issued, will constitute legally issued, fully paid and nonassessable shares of Common Stock of the Company.

We consent to the use of our name in the Registration Statement, and to the filing of this opinion as an exhibit to the Registration Statement. By giving you this opinion and consent, we do not admit that we are experts with respect to any part of the Registration Statement within the meaning of the term “expert” as used in Section 11 of the Securities Act or the rules and regulations promulgated thereunder, nor do we admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act.

Sincerely,

LOEB & LOEB LLP

/s/ LOEB & LOEB LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated September 13, 2004 (which report expresses an unqualified opinion and includes an explanatory paragraph relating to the adoption of SFAS No. 142, "Goodwill and Other Intangible Assets"), relating to the financial statements and financial statement schedule of OSI Systems, Inc., appearing in the Annual Report on Form 10-K of OSI Systems, Inc. for the year ended June 30, 2004.

/s/ DELOITTE & TOUCHE LLP
Los Angeles, California
February 9, 2005