

SECURITIES AND EXCHANGE COMMISSION
 WASHINGTON, D.C. 20549

FORM S-1
 REGISTRATION STATEMENT
 UNDER
 THE SECURITIES ACT OF 1933

HYSEQ, INC.
 (EXACT NAME OF REGISTRANT AS SPECIFIED IN ITS CHARTER)

NEVADA
 (STATE OR OTHER JURISDICTION OF
 INCORPORATION OR ORGANIZATION)

2835
 (PRIMARY STANDARD INDUSTRIAL
 CLASSIFICATION CODE NO.)

36-3855489
 (I.R.S. EMPLOYER
 IDENTIFICATION NO.)

670 ALMANOR AVENUE, SUNNYVALE, CALIFORNIA 94086 (408) 524-8100
 (ADDRESS, INCLUDING ZIP CODE, AND TELEPHONE NUMBER,
 INCLUDING AREA CODE, OF REGISTRANT'S PRINCIPAL EXECUTIVE OFFICES)

LEWIS S. GRUBER
 PRESIDENT AND CHIEF EXECUTIVE OFFICER
 670 ALMANOR AVENUE, SUNNYVALE, CALIFORNIA 94086 (408) 524-8100
 (NAME, ADDRESS, INCLUDING ZIP CODE, AND TELEPHONE NUMBER,
 INCLUDING AREA CODE, OF AGENT FOR SERVICE)

COPIES TO:

WILLIAM N. WEAVER, JR.
 SACHNOFF & WEAVER, LTD.
 30 S. WACKER DRIVE, 29TH FLOOR
 CHICAGO, ILLINOIS 60606-7484
 TELEPHONE NO. (312) 207-1000

DAVID J. SEGRE
 WILSON SONSINI GOODRICH & ROSATI
 650 PAGE MILL ROAD
 PALO ALTO, CALIFORNIA 94304-1050
 TELEPHONE NO. (650) 493-9300

APPROXIMATE DATE OF COMMENCEMENT OF THE PROPOSED SALE
 OF THE SECURITIES TO THE PUBLIC:

As soon as practicable after the effective date of this Registration Statement.

If any of the securities being registered on this Form are to be
 offered on a delayed or continuous basis pursuant to Rule 415 under the
 Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering
 pursuant to Rule 462(b) under the Securities Act, please check the following box
 and list the Securities Act registration number of the earlier effective
 registration statement for the same offering. 333-29091

If this Form is a post-effective amendment filed pursuant to Rule
 462(c) under the Securities Act, check the following box and list the Securities
 Act registration number of the earlier effective registration statement for the
 same offering.

If delivery of the prospectus is expected to be made pursuant to Rule
 434, please check the following box.

CALCULATION OF REGISTRATION FEE

TITLE OF EACH CLASS 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, \$.001 par value.....	287,500 shares	\$14.00	\$4,025,000	\$1,220

(1) Includes 37,500 shares that the Underwriters have the option to purchase
 to cover over-allotments, if any.
 (2) Estimated pursuant to Rule 457, solely for the purposes of computing the
 registration fee.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

This Registration Statement is being filed pursuant to Rule 462(b) under the Securities Act of 1933, as amended, by Hyseq, Inc. (the "Company") with the Securities and Exchange Commission (the "Commission"). This Registration Statement hereby incorporates by reference the contents of the Registration Statement on Form S-1 (File No. 333-29091) relating to the offering of up to 3,162,500 shares of common stock of the Company filed on June 12, 1997, as amended.

CERTIFICATION

The Company hereby certifies to the Commission that it has instructed its bank to pay the Commission the filing fee of \$1,120 for the additional securities being registered hereby as soon as practicable (but in any event no later than the close of business on August 8, 1997); that it will not revoke such instructions; that it has sufficient funds in the relevant account to cover the amount of the filing fee; and that it undertakes to confirm receipt of such instructions by the bank on August 8, 1997.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Company has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Chicago, Illinois on August 7, 1997.

HYSEQ, INC.

By: /s/ LEWIS S. GRUBER

Lewis S. Gruber
President and Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities indicated on this 7th day of August, 1997.

SIGNATURE -----	TITLE -----
* ----- ROBERT D. WEIST	Chairman of the Board
/s/ LEWIS S. GRUBER ----- LEWIS S. GRUBER	President and Chief Executive Officer, Director (Principal Executive Officer)
/s/ CHRISTOPHER R. WOLF ----- CHRISTOPHER R. WOLF	Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)
* ----- RADOJE T. DRMANAC	Director
* ----- RADOMIR B. CRKVENJAKOV	Director
* ----- RAYMOND F. BADDOUR	Director
* ----- GRETA E. MARSHALL	Director
* ----- THOMAS N. MCCARTER III	Director
* ----- KENNETH D. NOONAN	Director
*By: /s/ LEWIS S. GRUBER ----- LEWIS S. GRUBER Attorney-in-Fact	

INDEX TO EXHIBITS

EXHIBIT NO. -----	DESCRIPTION -----
5.1	Opinion of Sachnoff & Weaver, Ltd.
23.1	Consent of Ernst & Young LLP
23.2	Consent of Sachnoff & Weaver, Ltd. (contained in its opinion filed as Exhibit 5.1 hereto)
24.1*	Powers of Attorney

* Incorporated by reference from Exhibit 24.1 to the Company's
Registration Statement on Form S-1 (File No. 333-29091)

SACHNOFF & WEAVER, LTD.
30 SOUTH WACKER DRIVE, 29TH FLOOR
CHICAGO, ILLINOIS 60606
(312) 207-1000

August 7, 1997

Hyseq, Inc.
670 Almanor Avenue
Sunnyvale, California 94086

Dear Ladies and Gentlemen:

We have acted as counsel to Hyseq, Inc., a Nevada corporation (the "Company"), in connection with the proceedings (the "Company Proceedings") taken and to be taken by the Company as contemplated in the Registration Statement on Form S-1 (the "Registration Statement") filed by the Company under the Securities Act of 1933, as amended, with the Securities and Exchange Commission (the "Commission"), relating to the sale of up to 287,500 shares (the "Shares") of the Company's Common Stock, par value \$.001 per share. We have examined the Registration Statement. In addition, we have reviewed such other documents and have made such further investigations as we have deemed necessary to enable us to express the opinion hereinafter set forth. In rendering this opinion, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals and the conformity to authentic original documents of photostatic copies.

We are members of the Bar of the State of Illinois only and we express no opinion as to the law of any jurisdiction other than the General Corporation Law of the State of Nevada as specifically referenced in this opinion.

Based upon and subject to the foregoing, we hereby advise you that in our opinion the Shares have been duly authorized by the Company and, upon completion of the Company Proceedings and payment and delivery in accordance with the Underwriting Agreement, will be validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement.

Very truly yours,

/s/ Sachnoff & Weaver, Ltd.

SACHNOFF & WEAVER, LTD.

CONSENT OF ERNST & YOUNG LLP, INDEPENDENT AUDITORS

We consent to the incorporation by reference in this Registration Statement on Form S-1 of Hyseq, Inc. for the registration of 287,500 shares of its common stock of our report dated February 20, 1997 (except for Note 10 as to which the date is July 31, 1997), with respect to the consolidated financial statements for Hyseq, Inc. for the year ended December 31, 1996 and to the reference of our firm under the captions "Experts" and "Selected Financial Data" which are all included in the Registration Statement on Form S-1 of Hyseq, Inc. (No. 333-29091) and incorporated by reference in this Registration Statement.

/s/ ERNST & YOUNG LLP

Palo Alto, California
August 7, 1997