SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Form 10-K

(Mark One)

- [X] Annual report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 For the fiscal year ended December 31, 1998 or
- [] Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 For the transition period from to
 - ------

Commission File Number 0-16109

ADVANCED POLYMER SYSTEMS, INC. (Exact name of registrant as specified in its charter)

| Delaware | 94-2875566 |
|--|--|
| (State or other jurisdiction of incorporation or organization) | (I.R.S. Employer Identification Number) |
| 123 Saginaw Drive, Redwood City, California | 94063 |
| (Address of principal executive offices) | (Zip Code) |

Registrant's telephone number, including area code: (650) 366-2626

Securities registered pursuant to Section 12 (b) of the Act: None

Securities registered pursuant to Section 12 (g) of the Act: Common Stock (\$.01 par value)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes [X] No []

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Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (ss.229.405 of this chapter) is not contained herein, and will not be contained, to the best of the registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. [X]

The aggregate market value of the voting stock of the registrant held by non-affiliates of the registrant as of February 28, 1999, was \$64,091,712. (1)

As of February 28, 1999, 19,993,311 shares of registrant's Common Stock, \$.01 par value, were outstanding.

(1)Excludes 6,500,319 shares held by directors, officers and shareholders whose ownership exceeds 5% of the outstanding shares at February 28, 1999. Exclusion of such shares should not be construed as indicating that the holders thereof possess the power, directly or indirectly, to direct the management or policies of the registrant, or that such person is controlled by or under common control with the registrant. DOCUMENTS INCORPORATED BY REFERENCE

| | Form 10-K |
|----------|--------------|
| Document | Part |
| | |
| | |

Definitive Proxy Statement to be used in connection with the Annual Meeting of Stockholders.

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PART I

Item 1. BUSINESS

INTRODUCTION-FORWARD LOOKING STATEMENTS

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To the extent that this report discusses future financial projections, information or expectations about our products or markets, or otherwise makes statements which are not historical fact, such statements are forward-looking and are subject to a number of risks and uncertainties that could cause actual results to differ materially from the statements made. These include, among others, uncertainty associated with timely approval, launch and acceptance of new products, the costs associated with new product introductions, as well as other factors described below under the headings "APS Technology", "Products", "Manufacturing", "Marketing", "Government Regulation", "Patents and Trade Secrets" and "Competition". In addition, such risks and uncertainties also include the matters discussed under Management's Discussion and Analysis of Financial Condition and Results of Operations in Item 7 below.

THE COMPANY

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Advanced Polymer Systems, Inc. and subsidiaries ("APS" or the "Company") is using its patented Microsponge(R) delivery systems and related proprietary technologies to enhance the safety, effectiveness and aesthetic quality of topical prescription, over-the-counter ("OTC") and personal care products. The Company is currently manufacturing and selling Microsponge systems for use by corporate customers in approximately 100 different skin care products sold worldwide. APS holds 197 issued U.S. and foreign patents on its technology and has over 52 other patent applications pending.

The Company, founded in February 1983 as a California corporation under the name AMCO Polymerics, Inc., changed its name to Advanced Polymer Systems, Inc. in 1984 and was reincorporated in Delaware in 1987.

Products under development or in the marketplace utilize the Company's Microsponge systems in three primary ways: 1) as reservoirs releasing active ingredients over an extended period of time, 2) as receptacles for absorbing undesirable substances, such as excess skin oils, or 3) as closed containers holding ingredients away from the skin for therapeutic action. The resulting benefits include extended efficacy, reduced skin irritation, cosmetic elegance, formulation flexibility and improved product stability.

In February 1997, the Company received FDA approval for the first ethical pharmaceutical product based on its patented Microsponge technology Retin A(R)-Micro(TM) which has been licensed to Ortho-McNeil Pharmaceutical Corporation, a member of the Johnson & Johnson ("J&J") family of companies. This product was launched in March 1997. In September 1994, the Company submitted a New Drug Application ("NDA") for a melanin-Microsponge sunscreen. The NDA was found to be non-approvable pending additional information which the Company would need to generate.

APS has established several alliances with multinational corporations including J&J, Avon and Rhone-Poulenc Rorer for products which incorporate Microsponge systems. The alliance partners receive certain marketing rights to the products developed. In return, APS typically receives an initial cash infusion in the form of license fees, future payments contingent on the achievement of certain milestones, revenues from the manufacture of Microsponge systems, and royalty payments based on third party product sales or a share of partner revenues. For products requiring FDA approval, these alliances provide for the partners to pay the costs of product development, clinical testing, regulatory approval and commercialization. J&J and Rhone-Poulenc Rorer also have made equity investments in the Company.

Effective January 1997, the Company licensed certain of its consumer products to Lander Company in the United States and Canada in return for guaranteed minimum royalties and revenues from the sale of Microsponge systems. Lander is responsible for all aspects of commercialization including selling, marketing, manufacturing, distribution and customer service.

To maintain quality control over manufacturing, APS has committed significant resources to its production processes and polymer systems development programs. The Company's manufacturing facility in Lafayette, Louisiana, is responsible for large-scale production of Microsponge systems and related technologies. All products are manufactured according to Current Good Manufacturing Practices guidelines ("CGMPs") established by the FDA. In addition, APS has a process development pilot plant in its Louisiana facility. APS also has established relationships with contract manufacturers, which provide second-source production capabilities to handle growing product demand. - -----

The fundamental appeal of the Company's Microsponge technology stems from the difficulty experienced with conventional formulations in releasing active ingredients over an extended period of time. Cosmetics and skin care preparations are intended to work only on the outer layers of the skin. Yet, the typical active ingredient in conventional products is present in a relatively high concentration and, when applied to the skin, may be rapidly absorbed. The common result is over-medication, followed by a period of under-medication until the next application. Rashes and more serious side effects can occur when the active ingredients rapidly penetrate below the skin's surface. APS' Microsponge technology is designed to allow a prolonged rate of release of the active ingredients, thereby offering potential reduction in the side effects while maintaining the therapeutic efficacy.

Microsponge Systems. The Company's Microsponge systems are based on microscopic, polymer-based microspheres that can bind, suspend or entrap a wide variety of substances and then be incorporated into a formulated product, such as a gel, cream, liquid or powder. A single Microsponge is as tiny as a particle of talcum powder, measuring less than one-thousandth of an inch in diameter. Like a true sponge, each microsphere consists of a myriad of interconnecting voids within a non-collapsible structure that can accept a wide variety of substances. The outer surface is typically porous, allowing the controlled flow of substances into and out of the sphere. Several primary characteristics, or parameters, of the Microsponge system can be defined during the production phase to obtain spheres that are tailored to specific product applications and vehicle compatibility.

Polytrap(R) Systems. In January 1996, the Company signed a definitive agreement with Dow Corning Corporation to acquire full rights to Dow Corning's Polytrap technology and full responsibility for the continuing commercialization of Polytrap systems in exchange for 200,000 shares of APS common stock. Polytrap systems are designed to: 1) absorb skin oils and eliminate shine, 2) provide a smooth and silky feel to product formulation, 3) entrap and deliver various ingredients in personal care products and 4) convert liquids into powders.

Microsponge and Polytrap systems are made of biologically inert polymers. Extensive safety studies have demonstrated that the polymers are nonirritating, non-mutagenic, non-allergenic, non-toxic and nonbiodegradable. As a result, the human body cannot convert them into other substances or break them down. Furthermore, although they are microscopic in size, these systems are too large to pass through the stratum corneum (skin surface) when incorporated into topical products.

Colon-specific Systems. A Microsponge system offers the potential to hold active ingredients in a protected environment and provide controlled delivery of oral medication to the lower gastrointestinal ("GI") tract. This approach, if successful, should open up entirely new opportunities for APS.

Bioerodible Systems. The Company is also developing systems based on new bioerodible polymers for the delivery of small and large molecule drugs, including proteins and peptides, which, if successful, should open up new fields of opportunity in systemic drug delivery arenas.

PRODUCTS

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APS is currently focusing its efforts primarily on the ethical dermatology, OTC skin care and personal care markets in which Microsponge and Polytrap systems can provide substantial advantages. Certain additional applications for the Company's technology are also under development, as noted below.

Ethical Dermatology

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APS defines "ethical dermatology" products as prescription and nonprescription drugs that are promoted primarily through the medical profession for the prevention and treatment of skin problems or diseases. The Company is developing several ethical dermatology products which will require approval of the FDA before they can be sold in the United States. Although these pharmaceuticals are likely to take longer to reach the marketplace than OTC and personal care products due to the regulatory approval process, the Company believes that the benefits offered by Microsponge delivery systems will allow valuable product differentiation in this large and potentially profitable market. Results from various human clinical studies reaffirm that this technology offers the potential to reduce the drug side effects, maintain the therapeutic efficacy and potentially increase patient compliance with the treatment regimen. The following ethical dermatology products have been developed or are under development by APS: Tretinoin Acne Medication. In February 1997, the Company received FDA approval for Microsponge-entrapped tretinoin for improved acne treatment. This submission to the FDA represented the culmination of an intensive research and clinical development program involving approximately 1,150 patients. Tretinoin has been marketed in the U.S. by Ortho Dermatological, a Johnson & Johnson subsidiary, under the brand name RETIN-A(R) since 1971. It has proven to be a highly effective topical acne medication. However, skin irritation among sensitive individuals can limit patient compliance with the prescribed therapy. The Company believes its patented approach to drug delivery reduces the potentially irritating side effects of tretinoin. Ortho Dermatological began marketing this product in March 1997 under the brand name Retin-A(R) Micro (TM).

Melanin-Microsponge Sunscreen. APS has developed a sun protectant designed to provide protection against the sun's UVA rays as well as protection from the burning UVB rays. This unique APS product candidate incorporates the Company's melanin-Microsponge system containing genetically engineered melanin, a natural pigment found in skin.

The Company filed its NDA in September 1994 for marketing clearance. The NDA was found to be non-approvable pending additional information which the Company would need to generate. There can be no assurance that U.S. FDA approval will be received. The Company has, however, begun to commercialize melanin-Microsponge systems through strategic partners in Europe and South America, where regulatory approval is not required for the sale of sunscreen products.

5-Fluorouracil. Another ethical dermatology product candidate, Microsponge-entrapped 5-Fluorouracil ("5-FU"), was the subject of an Investigational New Drug ("IND") filing in early 1995. 5-FU is an effective chemotherapeutic agent for treating actinic keratosis, a precancerous, hardened-skin condition caused by excessive exposure to sunlight. However, patient compliance with the treatment regimen is poor, due to significant, adverse side effects. Through a joint agreement with Dermik, a subsidiary of Rhone-Poulenc Rorer, the Company is developing a Microsponge-enhanced topical formulation that potentially offers a less irritating solution for treating actinic keratosis. Phase III clinical studies have been completed and Dermik is preparing for the filing of an NDA in 1999.

Cosmeceutical Products

Retinol. Retinol is a highly pure form of Vitamin A which has demonstrated a remarkable ability to maintain the skin's youthful appearance. However, it has been commercialized on only a limited basis because it becomes unstable when mixed with other ingredients. APS has been able to stabilize retinol in a formulation which is cosmetically elegant and which has a low potential for skin irritation. The Company has executed agreements with eight companies, each of which has marketing strength in a particular channel of distribution. The channels for which the Company has licensed retinol are direct marketing (Avon), dermatologists (Medicis), salons and spas (Sothys), plastic surgery (BioMedic), prestige (La Prairie), mass (Scott's Liquid Gold) and through infomercials (Guthy Renker). The Company retains full rights to alternate channels of distribution. Additionally, the Company formed an alliance with R.P. Scherer to develop and commercialize unit-dose skin care treatments for aging skin using retinol and possibly other vitamins.

In May 1997, the Company entered into an agreement under which it licensed exclusive rights to broad-based patents covering the topical use of Vitamin K. The Company has developed various Vitamin K formulations that it is planning to license to marketing partners in a variety of distribution channels.

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Personal Care and OTC Products
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APS technologies are ideal for skin and personal care products. They can retain several times their weight in liquids, respond to a variety of release stimuli, and absorb large amounts of excess skin oil, all while retaining an elegant feel on the skin's surface. In fact, APS technologies are currently employed in approximately 100 products sold by major cosmetic and toiletry companies worldwide. Among these products are skin cleansers, conditioners, oil control lotions, moisturizers, deodorants, razors, lipsticks, makeup, powders, and eye shadows.

Entrapping cosmetic ingredients in APS' proprietary Microsponge delivery systems offers several advantages, including improved physical and chemical stability, greater available concentrations, controlled release of the active ingredients, reduced skin irritation and sensitization, and unique tactile qualities.

Other Product Applications

While not the principal focus of APS development efforts, other products could benefit from the value-added application of the Company's polymer

technology. To date, the Company has applied its technology to its analytical standards business.

Analytical Standards. APS initially developed microsphere precursors to the Microsponge for use as a testing standard for gauging the purity of municipal drinking water. Marketed by APS nationwide, these microspheres are suspended in pure water to form an accurate, stable, reproducible turbidity standard for the calibration of turbidimeters used to test water purity.

APS believes its analytical standards technology has much broader application than testing the turbidity of water. The Company has begun to develop standards for industrial use for the calibration of spectrophotometers and colorimeters.

MANUFACTURING

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Polymer Raw Material. Raw materials for the Company's polymers are petroleum-based monomers which are widely available at low cost. The monomers have not been subject to unavailability or significant price fluctuations.

Process Engineering and Development. The Company employs chemical engineers and operates a pilot-plant facility for developing production processes. The equipment used for manufacturing and process development is commercially available in industrial sizes and is installed in the Company's production facility in Lafayette, Louisiana.

Microsponge Production. APS has committed significant resources to the production process and polymer systems development required to commercialize its products. The Company has to date manufactured most Microsponge systems in company-owned and operated facilities.

The Company's manufacturing facility in Lafayette, Louisiana, is responsible for large-scale production of Microsponge systems and related technologies. The Company initiated a plant expansion project during 1997 in anticipation of higher volume requirements. This was completed during 1998. APS also has established relationships with contract manufacturers which provide second-source production capabilities. The Company's objective is to utilize these third parties selectively, so that it can maintain its flexibility and direct the bulk of APS' capital resources to other areas, such as product development and marketing. All products are manufactured according to CGMP. In addition, APS has a process development pilot plant in its Louisiana facility.

MARKETING

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A key part of APS' business strategy is to ally the Company with major marketing partners. The Company has therefore negotiated several agreements covering Microsponge delivery systems, the supply of entrapped ingredients, and the marketing of formulated products. To create an incentive for APS to develop products as quickly as possible, these development and license agreements provide, in some cases, for substantial payments by the client companies during the period of product development and test marketing. Additionally, some agreements provide for nonrefundable payments on the achievement of certain key milestones, royalties on sales of formulated products, and minimum annual payments to maintain exclusivity.

In general, APS grants limited marketing exclusivity in defined markets to client companies, while retaining the right to manufacture the Microsponge delivery systems it develops for these clients. However, after development is completed and a client commercializes a formulated product utilizing the Company's delivery systems, APS can exert only limited influence over the manner and extent of the client's marketing efforts.

The Company's key relationships are set forth below:

Johnson & Johnson Inc. In May 1992, APS and Ortho-McNeil Pharmaceutical Corporation ("Ortho"), a subsidiary of J&J, entered into a development and license agreement related to tretinoin-based products incorporating APS' Microsponge technology. As part of the agreement, certain license fees and milestone payments were paid by Ortho to APS. The license fees provided Ortho with exclusive distribution or license rights for all Ortho tretinoin products utilizing the APS Microsponge system. Ortho's exclusivity will continue as long as certain annual minimum royalty payments are made.

In February 1997, APS received FDA approval for the first product covered by this agreement, Microsponge-entrapped tretinoin. This product is being marketed by Ortho Dermatological beginning March 1997 as Retin-A(R) Micro (TM). APS received a payment of 33,000,000 from Ortho upon receipt of the FDA approval, of which half is a milestone payment which was recognized as revenue in 1997 and half is prepaid royalties which was recorded as deferred revenues.

Rhone-Poulenc Rorer. In March 1992, APS and Rhone-Poulenc Rorer ("RPR") restructured their 1989 joint venture agreement. Under the new terms, RPR received 705,041 shares of APS stock. Furthermore, RPR agreed to continue funding the exploration and development of certain dermatology applications of APS' technology. Product applications include a 5-FU treatment for pre-cancerous actinic keratosis. In 1995, RPR filed an IND application to begin human clinical testing of 5-FU. Phase III clinical trials have been completed and RPR is preparing for the filing of an NDA in 1999.

Lander Company. Effective January 1997, APS established a strategic alliance with Lander under which Lander was granted full marketing rights in the United States and Canada to Microsponge-based Exact(R) acne medications, Take-Off facial cleansers, Everystep(R) Foot Powder, as well as in-licensed consumer products. Under terms of the agreement, Lander is responsible for all aspects of commercialization including selling, marketing, manufacturing, distribution and customer service. APS receives guaranteed minimum royalties and revenues from the sale of Microsponge systems.

Avon. In August 1996, APS signed a license and supply agreement with Avon under which APS is providing Avon with a formulation incorporating Microsponge delivery systems and retinol, an ingredient developed to improve the appearance of aging skin. Under terms of the agreement, APS received upfront, non-refundable licensing fees and will receive manufacturing revenues on supply of product. In 1998, the Company announced that Avon had launched a second product using the Company's Microsponge systems technology.

Medicis. In October 1996, APS entered into an agreement with Medicis Pharmaceutical Corporation for the commercialization of certain dermatology products. Medicis is responsible for marketing two APS developed products in the United States. In return, APS received upfront, non-refundable licensing fees and a share of revenues, with guaranteed minimums. In November 1997, the Company licensed Vitamin K to Medicis for sale in the U.S. to dermatologists.

La Prairie. In October 1997, APS signed an agreement with La Prairie, a subsidiary of Beiersdorf AG for the supply of certain Microsponge-based formulations for the prestige high-end channel of distribution. La Prairie also provided funding for research and development for new products. Products subject to this agreement were shipped in the first quarter of 1998.

Pharmacia and Upjohn. In January 1998, the Company announced an agreement with Pharmacia and Upjohn to develop and commercialize a new product for a major global category in return for R&D fees and reimbursement of expenses. Advanced Polymer's Microsponge system technology will be utilized to deliver a proprietary Pharmacia and Upjohn therapeutic agent topically.

Scott's Liquid Gold. In June 1998, APS signed an agreement with Scott's Liquid Gold under which APS provides Scott's with products incorporating a Microsponge-based retinol formulation for the mass channel. Under terms of the agreement, APS received an upfront, non-refundable license fee and receives manufacturing revenues on the supply of product, which commenced in the third quarter of 1998.

GOVERNMENT REGULATION

Ethical Products

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In order to clinically test, produce and sell products for human therapeutic use, mandatory procedures and safety evaluations established by the FDA and comparable agencies in foreign countries must be followed. The procedure for seeking and obtaining the required governmental clearances for a new therapeutic product includes pre-clinical animal testing to determine safety and efficacy, followed by human clinical testing, and can take many years and require substantial expenditures. In the case of third-party agreements, APS expects that the corporate client will fund the testing and the approval process with guidance from APS. The Company intends to seek the necessary regulatory approvals for its proprietary dermatology products as they are being developed.

APS' facilities, utilized to manufacture pharmaceutical raw materials, are subject to periodic governmental inspections. If violations of applicable regulations are noted during these inspections, significant problems may arise affecting the continued marketing of any products manufactured by the Company.

The Company's plant in Lafayette, Louisiana operates according to CGMP prescribed by the FDA. This compliance has entailed modifying certain manufacturing equipment, as well as implementing certain record keeping and other practices and procedures which are required of all pharmaceutical manufacturers. The Company believes it is in compliance with federal and state laws regarding occupational safety, laboratory

practices, environmental protection and hazardous substance control.

Personal Care Products

Under current regulations, the market introduction of non-medicated cosmetics, toiletries and skin care products does not require prior formal registration or approval by the FDA or regulatory agencies in foreign countries, although this situation could change in the future. The cosmetics industry has established self-regulating procedures and the Company, like most companies, performs its own toxicity and consumer tests.

PATENTS AND TRADE SECRETS

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As part of the Company's strategy to protect its current products and to provide a foundation for future products, APS has filed a number of United States patent applications on inventions relating to specific products, product groups, and processing technology. The Company also has filed foreign patent applications on its polymer technology with the European Union, Japan, Australia, South Africa, Canada, Korea and Taiwan. The Company received U.S. patent protection for its basic Microsponge system in 1987 and now has a total of 43 issued U.S. patents and an additional 154 issued foreign patents. The Company has over 52 pending patent applications worldwide.

Although the Company believes the bases for these patents and patent applications are sound, they are untested, and there is no assurance that they will not be successfully challenged. There can be no assurance that any patent already issued will be of commercial value, or that any patent applications will result in issued patents of commercial value, or that APS' technology will not be held to infringe on patents held by others.

APS relies on unpatented trade secrets and know-how to protect certain aspects of its production technologies. APS' employees, consultants, advisors and corporate clients have entered into confidentiality agreements with the Company. These agreements, however, may not necessarily provide meaningful protection for the Company's trade secrets or proprietary know-how in the event of unauthorized use or disclosure. In addition, others may obtain access to, or independently develop, these trade secrets or know-how.

COMPETITION

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Although Microsponge and Polytrap systems, by virtue of their highly porous structure, are unique delivery systems, there are many alternate delivery systems available. However, in the cosmetic and cosmeceutical fields, Microsponge and Polytrap systems are particularly versatile at allowing the entrapment of active agents and controlled release by simple changes in vehicles.

Other delivery systems based on microparticulate materials could compete with Microsponge and Polytrap systems. Among these are liposomes, microcapsules and microspheres. Liposomes are small phospholipid vesicles capable of entrapping and releasing active agents. However, they are significantly more expensive to manufacture, less versatile and their stability is a concern. While they are primarily used in systemic applications, they are also used in the cosmetic arena.

The most closely related systems are microcapsules and microspheres. Microcapsules are spherical particles containing an active agent in the core, surrounded by a polymeric membrane. Microspheres are spherical particles containing the active agent dispersed in a polymeric matrix. The major distinguishing feature between Microsponge and Polytrap systems and microcapsules, or microspheres is that the structure of Microsponge and Polytrap systems is highly porous, while microspheres or microcapsules are solid particles with no internal voids.

Thus, while one type of Microsponge system can be used to entrap a variety of active agents and release these at desired rates by vehicle changes, different active agents and different release profiles can only be achieved with microcapsules or microspheres by a complete change in polymer and fabrication methods.

HUMAN RESOURCES

As of February 28, 1999, the Company had 90 full-time employees, 5 of whom hold PhDs. There were 31 employees engaged in research and development and quality control, 34 in manufacturing and production activities and 25 working in customer service, finance, marketing, human resources and administration.

The Company considers its relations with employees to be satisfactory. None of the Company's employees is covered by a collective bargaining agreement.

Item 2. PROPERTIES

The Company occupies 26,067 square feet of laboratory, office and warehouse space in Redwood City, California and 2,800 square feet of office space in Greenwich, Connecticut. The annual rent expense for the Redwood City facility is approximately \$641,000. The annual rent expense for the Greenwich office is approximately \$76,000.

The Company occupies a production facility and warehouse in Lafayette, Louisiana, with a current annual capacity, depending upon the application, to produce 1,000,000 to 3,000,000 pounds of entrapped materials. The existing plant, with contiguous acreage, has been designed to allow significant expansion. The construction of the facility in 1986 was financed primarily by 15-year tax-exempt industrial development bonds. In 1990, the bonds were refinanced. In 1995, the Company extinguished the bond liability through an "insubstance defeasance" transaction by placing U.S. government securities in an irrevocable trust to fund all future interest and principal payments. In 1995 the Company sold certain assets and subsequently leased them back for a certain fixed monthly rent over a period of forty-eight months. The Company reported this transaction as a financing transaction.

The Company's existing research and development and administrative facilities are not yet being used at full capacity and management believes that such facilities are adequate and suitable for its current and anticipated needs. Additional manufacturing capacity could be required as APS expands commercial production. It is anticipated that any additional production facilities would be built on land the Company presently occupies in Lafayette, Louisiana.

Item 3. LEGAL PROCEEDINGS

In November, 1997 Biosource Technologies, Inc. ("Biosource") filed a complaint against the Company in the San Mateo Superior Court. Biosource claimed damages from the Company on the grounds that the Company had failed to pay certain minimum amounts allegedly due under a contract for the supply of melanin.

In December 1998, the Company reached a settlement agreement with Biosource for a net amount of \$1,300,000, which consists of a \$1,500,000 settlement of Biosource's claims and a \$200,000 settlement of the Company's cross claims. Pursuant to the agreement, the Company paid Biosource \$300,000 in January, 1999. The remaining \$1,000,000 is payable by any combination of cash and/or the issuance of shares of the Company's Common Stock. The settlement agreement also provides for the termination of the license and supply agreement between the parties.

Item 4. SUBMISSION OF MATTERS TO A VOTE OF SECURITY HOLDERS

None.

PART II

Item 5. MARKET FOR REGISTRANT'S COMMON EQUITY AND RELATED SHAREHOLDER MATTERS

Shares of the Company's common stock trade on the Nasdaq National Market, under the symbol APOS. As of February 28, 1999, there were 565 holders of record of the Company's common stock.

The Company has never paid cash dividends and does not anticipate paying cash dividends in the foreseeable future. The following table sets forth for the fiscal periods indicated, the range of high and low sales prices for the Company's common stock on the NASDAQ National Market System.

| 1998 | High | Low | 1997 | High | Low |
|--|---------------------|---------------------------|--|--------------------------|-------------------------|
| First Quarter Second Quarter Third Quarter | 9 3/8 9 7 1/4 | 5 15/16 5 7/8 3 7/8 | First Quarter Second Quarter Third Ouarter | 10 3/8 8 1/2 8 5/8 | 7 3/8 6 7/8 6 7/8 |
| Fourth Quarter | , . | 4 | Fourth Quarter | 8 3/4 | 6 |

Item 6. SELECTED FINANCIAL DATA (in thousands, except per share data)

| For the Years Ended and as of December 31 | 1998 | 1997 | 1996 | 1995 | 1994 |
|---|---|---|------------------|---|--|
| Statements of Operations Data | | | | | |
| Product revenues Royalties, license fees and R&D fees Consumer products Milestone payments Cost of sales Research and development, net Selling, marketing and advertising General and administrative | \$13,637 6,354 7,127 4,382 2,999 3,009 | 4,391 1,500 7,164 3,740 3,806 | 3,506 | 451 9,104 750 11,047 4,139 6,560 | 1,402 9,389 10,149 6,334 5,669 |
| Loss on purchase commitment, including related inventory Net income (loss) | 1,896 | (683) | 1,400 (9,378) | 600 (9,359) | 685 (9,759) |
| Basic earnings (loss) per common share Diluted earnings (loss) per common share Weighted average common shares outstanding - basic Weighted average common shares outstanding - diluted | 0.10 0.09 19,854 20,381 | (0.04) 18,779 | . , | (0.57) 16,459 | (0.65) (0.65) 15,018 15,401 |
| Balance Sheet Data | | | | | |
| Working capital Total assets Long-term debt, excluding current portion Shareholders' equity | 23,081 | 6,143 24,180 3,055 10,241 | 18,444 | 23,082 6,355 | 5,641 23,508 979 11,786 |

The following tables summarize highlights from the statements of operations expressed as a percentage change from the prior year and as a percentage of product revenues.

STATEMENTS OF OPERATIONS HIGHLIGHTS (in thousands)

| For the | Years Ended | December | 31, Annu | al % Change |
|---------|-------------|----------|----------|-------------|
| 1998 | 1997 | 1996 | 98/9 | 7 97/96 |

| Product revenues Royalties, license fees and | \$13,637 | 12,442 | 6,138 | 10% | 103% |
|---|----------|--------|--------|--------|--------|
| R&D fees | 6,354 | 4,391 | 2,059 | 45% | 113% |
| Consumer products | | | 10,468 | % | (100%) |
| Milestone payment | | 1,500 | | (100%) | % |
| Total revenues | 19,991 | 18,333 | 18,665 | 9% | (2%) |
| Cost of sales | 7,127 | 7,164 | 10,772 | (1%) | (33%) |
| Research and development, net | 4,382 | 3,740 | 3,506 | 17% | 7% |
| Selling and marketing | 2,999 | 3,806 | 5,405 | (21%) | (30%) |
| Advertising and promotion | | | 3,050 | % | (100%) |
| General and administrative Loss on purchase commitments, | 3,009 | 3,552 | 2,984 | (15%) | 19% |
| Including related inventory | | | 1,400 | % | (100%) |
| | 1000 | | ~ - | | |
| | 1998 | 19 | 97 | 1996 | |
| Expanses expressed as a person | +200 | | | | |
| Expenses expressed as a percen of total revenues excluding milestone payment: | Laye | | | | |
| Cost of sales | 36% | 4 | 3% | 58% | |
| Research and development, net | 22% | 2 | 2% | 19% | |
| Selling and marketing | 15% | 2 | 3% | 29% | |
| Advertising and promotion | | - | - | 16% | |
| General and administrative Loss on purchase commitments, | 15% | 2 | 1% | 16% | |
| including related inventory | | - | - | 8% | |

Results of Operations for the years ended December 31, 1998 and 1997

Except for statements of historical fact, the statements herein are forward-looking and are subject to a number of risks and uncertainties that could cause actual results to differ materially from the statements made. These include, among others, uncertainty associated with timely approval, launch and acceptance of new products, development of new products, establishment of new corporate alliances, progress in research and development programs and other risks described below or identified from time to time in the Company's Securities and Exchange Commission filings.

The Company's revenues are derived principally from product sales, license fees and royalties. The Company is currently manufacturing and selling Microsponge(R) delivery systems for use by customers in approximately 100 different skin care products. Under strategic alliance arrangements entered into with certain corporations, APS can receive an initial license fee, future milestone payments, royalties based on third party product sales or a share of partners' revenues, and revenues from the supply of Microsponge and Polytrap systems.

These strategic alliances are intended to provide the Company with the marketing expertise and/or financial strength of other companies. In this respect, the Company's periodic financial results are dependent upon the degree of success of current collaborations and the Company's ability to negotiate acceptable collaborative agreements in the future.

Product revenues for 1998 totaled \$13,637,000, an increase of \$1,195,000 or 10% from the prior year. This increase resulted from the launches of a variety of new cosmeceutical products incorporating the Microsponge system technology.

Royalties, license fees and R&D fees increased by \$1,963,000 or 45% from the prior year to a total of \$6,354,000. Approximately 59% of the increase is attributable to higher R&D fees. Increased royalties accounted for approximately 37% of the increase. The remaining 4% of the increase is due to upfront non-refundable license fees from corporate partners for access to new products. Upfront non-refundable license fees totaled \$1,925,000 in 1998, an increase of \$75,000 or 4% from the prior year. Upfront non-refundable license fees that allow customers to sell the Company's proprietary products in a specific field on territory are recognized by the Company as earned when all contractual obligations have been satisfied and there are no contingencies or future obligations of the Company associated with the fee.

Total revenues for 1997 included a milestone payment of \$1,500,000 from Ortho upon receipt of marketing clearance from the FDA for Retin-A Micro in February 1997.

Gross profit on total revenues excluding milestone payments for 1998 was \$12,865,000, an increase of \$3,196,000 or 33% over the prior year. Approximately 61% of the increase is attributable to higher revenues from royalties, license fees and R&D fees. The remainder of the gross profit improvement was mainly due to increased sales of higher margin proprietary cosmeceutical products.

Research and development expenses increased by \$642,000 or 17% to \$4,382,000 due mainly to increased headcount, increased expenditure on new technology and expenses resulting from the move to new facilities in the first quarter of 1998.

Selling and marketing expense decreased by \$807,000 or 21% from the prior year to \$2,999,000 primarily as a result of reduced headcount, reduced outside services and one-time expenses related to the relocation of a senior executive in the prior year.

General and administrative expenses decreased by \$543,000 or 15% to \$3,009,000. This decrease was primarily attributable to a favorable settlement of the lawsuit from Biosource and a reduction in a variety of outside services.

Interest income decreased by \$124,000 or 34% from the prior year due to lower average cash balances. Interest expense decreased by \$247,000 or 23% due mainly to scheduled principal repayments during the year.

Net income for 1998 was \$1,896,000, an improvement of \$2,579,000 over the prior year's net loss of \$683,000.

Results of Operations for the years ended December 31, 1997 and 1996

Product revenues excluding revenues from consumer products for 1997 totaled \$12,442,000, an increase of \$6,305,000 or 103% over the prior year. This increase resulted primarily from the launches of a variety of new products incorporating the Microsponge(R) system technology by the Company's marketing partners. These product launches included Anew Retinol Recovery Complex PM Treatment which is marketed by Avon, and TxSystems(TM) AFIRM retinol formulation and Beta Lift peel kits which are marketed by Medicis Pharmaceutical.

Royalties, license fees and R&D fees increased by \$2,331,000 or 113% to \$4,391,000 due mainly to royalties received from Ortho on sales of Retin-A(R) Micro(TM) and from Lander on sales of certain consumer products. License fees received from new corporate partners for access to new products also contributed to the increase.

Total revenues for 1997 of \$18,333,000 also included recognition of \$1,500,000 as a portion of a milestone payment received from J&J upon receipt of marketing clearance from the Food and Drug Administration ("FDA") for Retin-A Micro in February 1997.

Total revenues of \$18,665,000 for 1996 included \$10,468,000 from sales of consumer products most of which were licensed out to Lander Company effective January 1, 1997.

Gross profit on total revenues excluding milestone payment for 1997 was \$9,669,000, an increase of \$1,776,000 over the prior year. Expressed as a percentage of total revenues excluding milestone payment, gross profit increased from 42% to 57%. Approximately 71% of the increase was attributable to increased royalties, license fees and R&D fees. The remainder was attributable to increased sales of higher margin proprietary cosmeceutical products and increased manufacturing volume.

Operating expenses for 1997 of \$11,098,000 represented a decrease of \$5,247,000 or 32% from the prior year total of \$16,345,000. Operating expenses for the prior year included a loss on purchase commitment for the purchase of melanin for \$1,400,000.

Selling and marketing expense decreased by \$1,599,000 or 30% from the year-ago period to \$3,806,000 in 1997. This substantial decrease was due primarily to the execution of the Company's strategic plan whereby it is no longer responsible for the direct selling, advertising and distribution of consumer products. Effective January 1, 1997, the Company out-licensed most of its consumer products to Lander Company in return for a royalty stream. This also resulted in the elimination of spending on advertising and promotion of products which had been \$3,050,000 in the prior year.

Research and development expenses increased by \$234,000 or 7% to \$3,740,000 in 1997 as the Company continued to invest in the expansion of its technology base.

General and administrative expense increased by \$568,000 or 19% to \$3,552,000 in 1997 due mainly to increased spending on a variety of outside services.

Interest income increased by \$47,000 or 15% to \$370,000 due to higher average cash balances. Interest expense decreased by \$171,000 or 14% to \$1,053,000 due mainly to scheduled principal repayments during the year.

The net loss for the year of \$683,000 represented a decrease of 93% or \$8,695,000 from the year-ago loss of \$9,378,000.

Capital Resources and Liquidity

Total assets as of December 31, 1998 were \$23,081,000 compared with \$24,180,000 at December 31, 1997. Working capital decreased to \$5,302,000 from \$6,143,000 for the same period and cash and cash equivalents decreased to \$4,088,000 from \$8,672,000. For the year ended December 31, 1998, the Company's operating activities used \$1,548,000 of cash compared to \$30,000 in the prior year. The Company invested approximately \$4,382,000 in product research and development and \$2,999,000 in selling and marketing the Company's products and technologies.

Accounts receivable increased to \$2,533,000 at December 31, 1998 from \$2,288,000 at December 31, 1997. Days sales outstanding increased to 68 days in 1998 from 67 days in 1997. Receivables from royalties, license fees and R&D fees increased to \$2,297,000 in 1998 from \$1,100,000 in 1997 due mainly to an increase in related revenues in the fourth quarter of 1998. Royalty payments are not typically due from customers until 45 days after the end of each quarter. Research and development fees are typically billed at the end of each quarter.

Capital expenditures for the year ended December 31, 1998 totaled \$2,710,000 compared to \$2,800,000 in the prior year. Capital expenditures were incurred for plant expansion projects at the Company's manufacturing facility in Lafayette, Louisiana which are necessary to meet anticipated higher volume requirements. This stage of the plant expansion has been completed. Capital expenditures were also incurred for leasehold improvements to the newly-leased corporate offices and research and development facility in Redwood City and for replacement of non-Year 2000 compliant systems. The Company has financed its operations, including technology and product research and development, from amounts raised in debt and equity financings, the sale of Microsponge and Polytrap delivery systems and analytical standard products; payments received under licensing agreements; and interest earned on short-term investments.

During 1998, the company received approximately \$1,651,000 from the exercise of approximately 310,000 warrants to purchase common stock which had been issued in conjunction with a 1994 private placement.

In March 1999, the Company received a \$4,000,000 term loan with a fixed interest rate of 13.87%. The loan is secured by the assets of the Company's manufacturing facility in Louisiana and a portion of the Company's accounts receivable. Principal and interest payments are due in equal monthly installments over a period of forty-eight months commencing March 1999.

The term loan was obtained mainly to refinance the scheduled debt repayments made in the first quarter of 1999.

The Company's existing cash and cash equivalents, collections of trade accounts receivable, together with interest income and other revenue producing activities including licensing fees, royalties and research and development fees are expected to be sufficient to meet the Company's working capital requirements for the foreseeable future, assuming no changes to existing business plans.

Year 2000

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The Company is conducting a comprehensive review of its internal computer systems to ensure these systems are adequate to address the issues expected to arise in connection with the Year 2000. These issues include the possibility that software which uses only the last two digits to refer to the year will no longer function properly for years that begin with 20 rather than 19. In addition, the Company is reviewing the status of its customers and suppliers with regard to this issue and assessing the potential impact of non-compliance by such parties on the Company's operations.

The Company has developed a phased program to address Year 2000 issues. The first phase consists of identifying necessary changes to application software used by the Company. The Company utilizes an integrated ERP system for the majority of its manufacturing and financial systems and has received the Year 2000 compliant version of the software from the vendor. Implementation of the upgraded software was completed on September 30, 1998.

The second phase consists of determining whether Company systems not addressed in Phase One (including non-IT systems) are Year 2000 compliant. Identification of systems that are not Year 2000 compliant has been completed. The Company is now in the process of upgrading or replacing these systems. The Company expects to upgrade or replace these noncompliant systems by the third quarter of 1999.

The third phase consists of determining the extent to which the Company may be impacted by third parties' systems, which may not be Year 2000compliant. The Year 2000 computer issue creates risk for the Company from third parties with whom the Company deals on financial transactions worldwide. While the Company expects to complete efforts in the second quarter of 1999, there can be no assurance that the systems of other companies with which the Company deals or on which the Company's systems rely will be converted on a timely basis, or that any such failure to convert by another company could not have an adverse effect on the Company.

Based on current estimates, management expects the total cost to remediate non-compliant systems will be less than \$650,000 (approximately \$580,000 of which was incurred in 1998). Most of the costs incurred were for purchases of new systems and related equipment. The estimate may change materially as the Company continues to review and audit the result of its work. The Company expects to fund all costs to upgrade or replace systems that are not Year 2000-compliant through operating cash flows.

The Company has not yet determined its most likely worst case Year 2000 scenario. Potential Year 2000 scenarios are going to be considered in the Company's contingency plans.

The Company is currently in the process of developing formal contingency plans for addressing any problems which may result if the work performed in phase two and three do not successfully resolve all issues by the Year 2000. The Company expects to complete its contingency plans in the second quarter of 1999.

Failure to complete any necessary remediation by the Year 2000 may have a material adverse impact on the operations of the Company. Failure of third parties, such as customers and suppliers, to remediate Year 2000 problems in their IT and non-IT systems would also have a material adverse

impact on the operations of the Company.

New Accounting Standards

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In June 1997, the Financial Accounting Standards Board issued Statement of Financial Accounting Standards No. 131 "Disclosures about Segments of A Business Enterprise" (SFAS 131) which is effective for financial statements beginning after December 15, 1997, and establishes standards for disclosures about segments of an enterprise. Currently the Company operates in a single segment.

In June 1998, the FASB issued SFAS No. 133 "Accounting for Derivative Instruments and Hedging Activities" (SFAS 133) which will be effective for all fiscal quarters of fiscal years beginning after June 15, 1999. SEAS 133 establishes accounting and reporting standards for derivative instruments and for hedging activities. It requires that an entity recognize all derivatives as either assets or liabilities in the statement of financial position and measure those instruments at fair value. SFAS 133 generally provides for matching the timing of gain or loss recognition on the hedging instrument with the recognition of (a) the changes in the fair value of the hedged asset or liability that are attributed to the hedged risk or (b) the earnings effect of hedged forecasted transactions. Earlier application of all provisions of this statement is encouraged but it is permitted only as of the beginning of any fiscal quarter that begins after issuance of this statement. The Company anticipates that adoption of this statement will not have a material effect on the consolidated financial statements.

Item 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURE ABOUT MARKET RISK

The Company does not believe that there is any material market risk exposure with respect to derivative or other financial instruments which would require disclosure under this item.

Consolidated Balance Sheets

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| | Decem | ber 31, |
|---|---|---|
| | 1998 | 1997 |
| Assets | | |
| Current Assets: Cash and cash equivalents Accounts receivable less allowance for doubtful accounts of \$96,284 and \$57,453 at December 31, 1998 and 1997 | \$ 4,088,173 | 8,672,021 |
| respectively Receivables for royalties, license fee | 2,532,527 | 2,288,297 |
| and R&D fees Accrued interest receivable Inventory Advances to officers and employees Prepaid expenses and other | 2,296,852 3,801 2,959,443 338,947 592,599 | 1,100,368 13,606 2,639,129 96,706 430,839 |
| Total current assets | 12,812,342 | 15,240,966 |
| Property and equipment, net Deferred loan costs, net Prepaid license fees, net Goodwill and other intangibles, net of | 8,643,856 90,428 | , , |
| accumulated amortization of \$1,286,873 and \$1,102,480 at December 31, 1998 and 1997, respectively | 1,351,813 | 1,477,542 |
| Other long-term assets | 182,892 | 254,180 |
| Total Assets | \$ 23,081,331 ======== | |
| Liabilities and Shareholders' Equity | | |
| Current Liabilities: Accounts payable Accrued expenses Accrued settlement liability Current portion - long-term debt Deferred revenue | <pre>\$ 1,347,737 1,057,287 1,300,000 3,055,460 750,000</pre> | 1,636,189 2,832,299 1,800,000 2,523,389 306,014 |
| Total current liabilities | 7,510,484 | 9,097,891 |
| Deferred revenue - long-term Long-term debt | 1,035,855 | 1,785,855 3,055,460 |
| Total Liabilities | 8,546,339 | 13,939,206 |
| Commitments and Contingencies | | |
| Shareholders' Equity: Preferred stock, authorized 2,500,000 shares; none issued or outstanding at December 31, 1998 and 1997 Common stock, \$.01 par value, authorized 50,000,000 shares; issued and outstanding 19,993,311 and | : | |
| 19,464,821 at December 31, 1998 and 1997, respectively Warrants, issued and outstanding: 196,538 at December 31, 1998 and | 199,933 | 194,648 |
| 506,816 at December 31, 1997 Additional paid-in capital Accumulated deficit | 497,192 84,206,508 (70,368,641) | |
| Total Shareholders' Equity | 14,534,992 | 10,241,228 |
| Total Liabilities and Shareholders' Equity | \$ 23,081,331 ======== | 24,180,434 ======== |
| | | |

See accompanying notes to consolidated financial statements.

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| | For the Y | ears Ended Dece | ember 31, |
|--|-------------------------------------|-------------------------------------|---|
| | 1998 | 1997 | 1996 |
| | | | |
| Revenues Product revenues Royalties, license fees and R&D | \$13,637,093 | 12,441,484 | 6,138,094 |
| fees Consumer products | 6,354,186 | | 2,059,301 10,467,512 |
| Milestone payments | | 1,500,000 | |
| Total revenues | 19,991,279 | 18,332,659 | 18,664,907 |
| Expenses Cost of sales Research and development, net Selling and marketing Advertising and promotion | 7,126,573 4,381,913 2,999,424 | 7,164,120 3,740,337 3,806,030 | 10,771,766 3,506,161 5,404,774 3,050,180 |
| General and administrative Loss on purchase commitment, including related inventory | 3,009,488 | 3,551,977 | 2,984,213 1,400,000 |
| Operating income (loss) | 2,473,881 | 70,195 | (8,452,187) |
| Interest expense Interest income Other expense, net | (805,364) 246,260 (19,252) | (1,052,715) 370,478 (71,119) | (1,223,303) 322,986 (25,595) |
| Net income (loss) | \$ 1,895,525 ======== | (683,161) | |
| Basic earnings (loss) per common Share | \$ 0.10 | (0.04) | (0.52) |
| Diluted earnings (loss) per common share | \$ 0.09 ====== | (0.04) | (0.52) |
| Weighted average common shares outstanding - basic | 19,854,103 ======= | 18,778,921 ======= | 17,987,153 ======= |
| Weighted average common shares Outstanding - diluted | 20,380,832 ======= | 19,814,833 ======= | 19,494,412 ====== |

See accompanying notes to consolidated financial statements.

Consolidated Statements of Shareholders' Equity

For the Years Ended December 31, 1998, 1997 and 1996

| | Common Shares | Stock Amount | | Stock ants Amount | Additional | ccumulated Other mprehensive Income | Accumulated Deficit | |
|--|------------------|-----------------|-----------|-------------------------|--------------|--|------------------------|-------------|
| | 51181 85 | AIII0UITL | | AIIIOUTTE | Capitai | | Delicit | Equity |
| Balance, December 31, 1995 | 17,026,666 | \$170,267 | 1,628,611 | \$2,653,076 | \$64,600,516 | \$12,348 | \$(62,202,906) | \$5,233,301 |
| Options exercised | 416,219 | 4,162 | | | 1,993,017 | | | 1,997,179 |
| Shares retired Private placement, | (12,836) | (128) | | | (97,747) | | | (97,875) |
| net of \$62,149 in offering costs Common stock to be issued in connection with the agreement wit | 201,922 h | 2,019 | 86,538 | 295,751 | 1,640,081 | | | 1,937,851 |
| Johnson & Johnson Common stock issued in connection with the agreement with Johnson | (432,101) | (4,321) | | | 4,321 | | | |
| & Johnson Common stock issued in connection with the agreement with Lander | 432,101 | 4,321 | | | (4,321) | | | |

| Company, net of \$39,547 in offering costs Common stock issued to | , 356,761 | 3,567 | | | 2,956,976 | | | 2,960,543 |
|--|--------------|-----------|-----------|-------------|--------------|----------|-------------------|----------------|
| Dow Corning, net of \$4,000 in offering cost | s 200,000 | 2,000 | | | 1,194,000 | | | 1,196,000 |
| Common stock issued to Biosource Securities issued in deb | 94,000 | 940 | | | 599,060 | | | 600,000 |
| financing arrangements Fair value of stock | 10,675 | 107 | 4,325 | (50,935) | 78,353 | | | 27,525 |
| options issued to non-employees | | | | | 161,299 | | | 161,299 |
| Warrants exercised | 66,337 | 663 | (87,500) | (155,200) | 539,537 | | | 385,000 |
| Warrants expired Reclassification adjustment for unrealized holding gains included | , | | (200,000) | (285,000) | | | | · |
| in net income | | | | | | (12,348) | | (12,348) |
| Net loss | | | | | | | (9,378,099) | (9,378,099) |
| Balance December 31, | | | | | | | | |
| | 18,359,744 | \$183,597 | 1,431,974 | \$2,457,692 | \$73,950,092 | \$ | \$(71,581,005) | \$ 5,010,376 |
| Options exercised Fair value of stock options issued to | 165,374 | 1,654 | | | 777,452 | | | 779,106 |
| non-employees Common stock issued to employees under the Employee Stock Purchase | | | | | 96,757 | | | 96,757 |
| Plan | , 14,545 | 145 | | | 87,125 | | | 87,270 |
| Warrants exercised | 925,158 | 9,252 | (925,158) | (1,474,500) | 6,416,128 | | | 4,950,880 |
| Net loss | | | | | | | (683,161) | (683,161) |
| Palanco Docember 31 | | | | | | | | |
| Balance, December 31, 1997 | 19,464,821 | \$194,648 | 506,816 | \$ 983,192 | \$81,327,554 | \$ | \$(72,264,166) | \$10,241,228 |
| Options exercised Fair value of stock options issued to | 79,598 | 796 | | | 413,072 | | | 413,868 |
| non-employees Restricted stock | | | | | 42,200 | | | 42,200 |
| awards Common stock issued to employees under the Employee Stock Purchase | 100,000 | 1,000 | | | 99,857 | | | 100,857 |
| Plan | 38,614 | 386 | | | 190,249 | | | 190,635 |
| Warrants exercised | 310,278 | 3,103 | (310,278) | (486,000) | 2,133,576 | | | 1,650,679 |
| Net income | | | | | | | 1,895,525 | 1,895,525 |
| Balance Decombor 21 | | | | | | | | |
| Balance, December 31, 1998 | 19,993,311 | \$199,933 | 196,538 | \$ 497,192 | \$84,206,508 | \$ | \$(70,368,641) | \$14, 534, 992 |
| 1990 | ========== | ====== | ======== | ========= | ========== | | ================= | ========= |
| | | | | | | | | |

See accompanying notes to consolidated financial statements.

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| | | Years Ended De | |
|--|---------------------------|--------------------------|--------------------------|
| | 1998 | 1997 | 1996 |
| Cash flows from operating activities. | | | |
| Cash flows from operating activities: Net income (loss) | \$ 1,895,525 | (683,161) | (9.378.099) |
| Adjustments to reconcile net income (loss) to net cash used in operating activities: | + _,, | (000,202) | (0,0.0,000) |
| Depreciation and amortization Provision for loss on purchase | 1,104,337 | 980,933 | 1,393,805 |
| commitments, including inventory | | | =,, |
| Allowance for doubtful accounts | 38,830 | 22,967 | 9,331 161,299 |
| Stock compensation awards to non-employees Restricted stock awards | 42,200 100,857 | 96,757 | 161,299 |
| Amortization of deferred loan costs Changes in operating assets and liabilities: | 263, 265 | 263,265 | 215,366 |
| Accounts receivable Receivables for royalties, license fees and | | (1,286,817) | 958,682 |
| R&D fees | (1,196,484) | (458,667) | (197,346) |
| Accrued interest receivable | 9,805 | (9,643) | 12,510 |
| Inventory | | (554,056) | |
| Advances to officers and employees | (242, 241) | (3,727) (199,753) | (23,058) |
| Prepaid expenses and other Assets held for sale | (101,700) | (199,753) | |
| Other long-term assets | | (194,577) | |
| Accounts payable and accrued expenses | | | (6,075,821) |
| Accrued settlement liability | (500,000) | | (6,075,821) 1,200,000 |
| Deferred revenue | (306,014) | 1,341,869 | |
| Net cash used in operating activities | (1,547,230) | (20, 296) | (6,117,207) |
| Net cash used in operating activities | (1, 347, 230) | (30,200) | |
| Cash flows from investing activities: | | | |
| Purchases of property and equipment Purchases of intangible assets Proceeds from sale of equipment and | | (2,799,683) (400,000) | |
| assets held for sale | | 2,181,004 | |
| Purchases of marketable securities Maturities and sales of marketable | | | (512,513) |
| securities | | | , |
| Net cash used in investing activities | (2,768,411) | (1,018,679) | (731,988) |
| | | | |
| Cash flows from financing activities: | (0,500,000) | (1 400 770) | |
| Repayment of long-term debt Proceeds from long-term debt and warrants Proceeds from private placements, net of | (2,523,389) | (1,490,779) | (870,598) 758,795 |
| offering costs Proceeds from stock issued to Lander | | | 1,937,851 |
| Company, net of offering costs Proceeds from the exercise of common | | | 2,960,543 |
| stock options and warrants, net of common stock retired | 2,064,547 | 5,729,986 | 2,284,304 |
| Proceeds from issuance of shares under the employee Stock Purchase Plan | 190,635 | 87,270 | |
| Net seek (weed in) menuided by financian | | | |
| Net cash (used in) provided by financing activities | (268,207) | 4,326,477 | 7,070,895 |
| | | - | |
| Net (decrease) increase in cash and cash equivalents | (4,583,848) | 3,277,512 | 221,700 |
| Cash and cash equivalents at the beginning of the year | 8,672,021 | | 5,172,809 |
| Oach and each equivalents at the and of | | | |
| Cash and cash equivalents at the end of the year | \$ 4,088,173 | 8,672,021 | |
| Cash paid in interest | ======== \$ 559,664 | ======== 790,379 | ======= 893,239 |
| | ======= | ======= | |

Supplemental disclosure of non-cash financing transactions: During the first quarter of 1996, the Company acquired all rights to the Polytrap technology from Dow Corning Corporation ("DCC") in exchange for 200,000 shares of common stock valued at \$1,200,000. During the first quarter of 1996, the Company paid Biosource for the 1995 purchase commitment totaling \$600,000 by issuing 94,000 shares of common stock. In 1996, the Company offset a deposit of approximately \$188,000 with a creditor against a loan from the same creditor (Note 8).

See accompanying notes to consolidated financial statements.

DECEMBER 31, 1998, 1997 AND 1996

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Note 1 Business

Advanced Polymer Systems, Inc. ("APS" or the "Company") develops, manufactures and sells patented delivery systems that allow for the controlled release of active ingredients which have benefits in the ethical dermatology, cosmetic and personal care areas. Certain projects are conducted under development and licensing arrangements with large companies, others are part of joint ventures in which APS is a major participant, and a number of projects are exclusive to APS. Prior to 1997, APS also marketed and distributed a range of consumer products for personal care through its subsidiary, Premier, Inc. ("Premier"). Effective January 1, 1997, APS licensed the consumer products to a third party.

Note 2 Summary of Significant Accounting Policies

Principles of Consolidation: The consolidated financial statements include the financial statements of the Company and its wholly owned subsidiaries, Premier, Advanced Consumer Products, Inc. ("ACP") and APS Analytical Standards. All significant intercompany balances and transactions have been eliminated in consolidation.

Cash Equivalents and Marketable Securities

For purposes of the Consolidated Statements of Cash Flows and Consolidated Balance Sheets, the Company considers all short-term investments that have original maturities of less than three months to be cash equivalents. Short-term investments consist primarily of commercial paper, master notes and repurchase agreements. All investments were classified as cash equivalents in the accompanying financial statements since there were no investments with original maturities longer than three months. The Company has classified its investments in certain debt and equity securities as "available-forsale".

Financial Instruments

The Company's investments are recorded at fair value with unrealized holding gains and losses reported as a separate component of shareholders' equity. The carrying amounts reported in the balance sheets for cash, receivables, accounts payable, accrued liabilites and short-term and long-term debt approximate fair values due to the shortterm maturities.

Inventory

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Inventory is stated at the lower of cost or market value, utilizing the average cost method (Note 6).

Property and Equipment

Property and equipment are carried at cost. Depreciation is computed using the straight-line method over the estimated useful lives of the assets, not exceeding twenty years (Note 7).

Prepaid License Fees

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A fee paid to Biosource in 1992 was amortized over a seven-year period consistent with the term of the agreement (Note 3). Amortization of prepaid license fees totalled \$82,880, \$82,872 and \$137,880 in 1998, 1997 and 1996, respectively. As of December 31, 1998, the prepaid license fee has been fully amortized.

Deferred Loan Costs

Deferred charges relate to costs incurred in obtaining certain loans. These charges are being amortized over the life of the loans using the effective interest method (Note 8).

Long-Lived Assets, Including Goodwill and Other Intangibles

In accordance with SFAS No. 121, "Accounting for the Impairment of Long-Lived Assets and for Long-Lived Assets to be Disposed Of" as circumstances dictate, the Company evaluates whether changes have occurred that would require revision of the remaining estimated lives of recorded long-lived assets, including goodwill, or render those assets not recoverable. If such circumstances arise, recoverability is determined by comparing the undiscounted net cash flows of longlived assets to their respective carrying values. The amount of impairment, if any, is measured based on the projected discounted cash flows using an appropriate discount rate. At this time, the Company believes that no significant impairment of long-lived assets, including goodwill and other intangibles, has occurred and that no reduction of the estimated useful lives of such assets is warranted.

In 1997, APS acquired all the rights to Exact(R) acne medication from Johnson & Johnson Consumer Products, Inc. for \$350,000. Effective January 1, 1997, APS licensed Exact and other consumer products to Lander Company. The rights are being amortized on a straight-line basis over the length of the licensing agreement with Lander.

In the first quarter of 1996, APS acquired all patents and rights to the Polytrap technology from Dow Corning Corporation in exchange for 200,000 shares of its common stock. APS recorded intangible assets totalling \$1,200,000 relating to this transaction. The intangible assets are being amortized on a straight-line basis over a period of approximately 10 years, which is the remaining life of the main patent acquired.

In 1992, APS acquired for 157,894 shares of its common stock, the outstanding 25% interest in ACP, APS' over-the-counter consumer products subsidiary. The acquisition was accounted for as a purchase. Excess of cost over net assets acquired arising from the purchase was amortized over five years on a straight-line basis.

Amortization of intangible assets totalled \$184,392, \$188,259 and \$279,756, in 1998, 1997 and 1996, respectively.

Stock-Based Compensation

The Company has chosen to account for stock-based compensation using the intrinsic value method prescribed in Accounting Principles Board Opinion No. 25, Accounting for "Stock Issued to Employees" and related interpretations. Accordingly, except for stock options issued to nonemployees and restricted stock awards to employees, no compensation cost has been recognized for the Company's fixed stock option plans and stock purchase plan (Note 10).

Use of Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and related notes to financial statements. Changes in such estimates may affect amounts in future periods.

Revenue Recognition

Product revenues are recorded upon shipment of products.

The Company has several licensing agreements that generally provide for the Company to receive periodic minimum payments, royalties, and/or non-refundable license fees. These licensing agreements typically require a non-refundable license fee and allow customers to sell the Company's proprietary products in a specific field or territory. The license agreements provide for APS to earn future revenue through product sales and/or, in some cases, royalty payments. The license fees are non-refundable even if the agreements are terminated before their term or APS fails to supply product to the licensee. These amounts are classified as Royalties, License Fees and R&D Fees in the accompanying consolidated statements of operations.

Contractually required minimum royalties are recorded ratably throughout the contractual period. Royalties in excess of minimum royalties are recognized as earned when the related product is shipped to the end customer by the Company's licensees based on information received by the Company from its licensees. Upfront non-refundable fees, including license fees, are recognized as earned when all contractual obligations have been satisfied and there are no contingencies or future obligations of the Company associated with the fee.

A milestone payment is a payment made by a third party or corporate partner to the Company upon the achievement of a predetermined milestone as defined in a legally binding contract. Milestone payments are recognized as revenue when the milestone event has occurred and the Company has completed all milestone related services such that the milestone payment is currently due and is non-refundable. In 1997, the Company achieved a milestone payment with the receipt of marketing clearance from the FDA for Retin-A(R) Micro(TM) (Note 15). Advertising and Promotion Costs

Advertising and promotion costs are expensed as incurred.

Earnings (Loss) Per Share

The Company has adopted and retroactively applied the provisions of Statement of Financial Accounting Standards No. 128 "Earnings per Share" ("FAS 128") for all periods presented. FAS 128 requires the Company to report both basic earnings per share, which is computed by dividing net income by the weighted-average number of common shares outstanding, and diluted earnings per share, which is computed by dividing net income by the total of weighted-average number of common shares outstanding and dilutive potential common shares outstanding (Note 11).

Deferred Revenue

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Prepaid royalties paid to APS by Ortho-McNeil Pharmaceutical Corporation ("Ortho"), a subsidiary of Johnson & Johnson Inc. ("J&J"), as part of the retinoid licensing agreement are reported as deferred revenues (Note 15).

In accordance with the licensing agreement, 25% of the royalties earned by APS are applied against the deferred revenues after certain annual minimum royalty payments are met.

Concentrations of Credit Risk

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Financial instruments which potentially expose the Company to concentrations of credit risk, as defined by Statement of Financial Accounting Standards No. 105, consist primarily of trade accounts receivable. Approximately 65% and 51% of the recorded trade receivables were concentrated with five and five customers in the cosmetic and personal care industries as of December 31, 1998 and 1997, respectively. To reduce credit risk, the Company performs ongoing credit evaluations of its customers' financial conditions. The Company does not generally require collateral.

Reclassifications

- -----

Certain reclassifications have been made to the prior year financial statements to conform with the presentation in 1998.

Note 3 Related Party Transactions

The Company has entered into agreements with Biosource Technologies, Inc. ("Biosource") of which Toby Rosenblatt, a member of the Company's Board of Directors, is a stockholder and a former director. All agreements between APS and Biosource have been, and will continue to be, considered and approved by a vote of the disinterested directors. The agreements provided APS worldwide rights to use and sell Biosource's biologicallysynthesized melanin in Microsponge systems for all sun protection, cosmetic, ethical dermatology and over-the-counter skin care purposes. In return, APS was required to make annual minimum purchases of melanin, pay royalties on sales of APS melanin-Microsponge products and was required to prepay \$500,000 of royalties. For estimated losses on purchase commitments and related inventory, the Company accrued \$0,\$0 and \$1,400,000 in 1998, 1997 and 1996, respectively. All minimum financial commitments under the current agreements have been expensed by APS.

In 1996, APS paid Biosource the 1995 minimum purchase commitment by issuing Biosource 94,000 shares of APS common stock.

In November, 1997 Biosource filed a complaint against the Company in the San Mateo Superior Court. In December 1998, the Company reached a settlement agreement with Biosource for a net amount of \$1,300,000, which consists of a \$1,500,000 settlement of Biosource's claims and a \$200,000 settlement of the Company's cross claims (Note 4). The Company's consolidated financial statemements for the period ended December 31, 1998 include a favorable decrease in accrued settlement liability of \$500,000 resulting from the settlement agreement.

As of December 31, 1998, the Company has an outstanding secured loan receivable of \$253,000 from an officer of the Company. The loan bears an interest rate of approximately 5% and is secured by the shares of Company stock owned by the officer. The loan was approved by the Compensation Committee of the Company's Board of Directors. Repayment of the loan is due by December 31, 1999.

In November, 1997 Biosource filed a complaint against the Company in the San Mateo Superior Court. Biosource claimed damages from the Company on the grounds that the Company had failed to pay certain minimum amounts allegedly due under a contract for the supply of melanin.

In December 1998, the Company reached a settlement agreement with Biosource for a net amount of \$1,300,000, which consists of a \$1,500,000 settlement of Biosource's claims and a \$200,000 settlement of the Company's cross claims. Pursuant to the agreement, the Company paid Biosource \$300,000 in January, 1999. The remaining \$1,000,000 is payable by any combination of cash and/or the issuance of shares of the Company's Common Stock. The settlement agreement also provides for the termination of the license and supply agreement between the parties.

Note 5 Cash Equivalents

All investments in debt securities have been classified as cash equivalents in the accompanying balance sheets as they had original maturities of 90 days or less.

At December 31, 1998 and 1997, the amortized cost and estimated market value of investments in debt securities are set forth in the tables below:

| | December 3 | 31, 1998 |
|---|------------------------|---------------------------|
| | Cost | Estimated Marked Value |
| Available-for-Sale: Corporate debt securities Other debt securities | \$1,984,204 152,119 | 1,984,204 152,119 |
| Totals | \$2,136,323 | 2,136,323 |

| | December 31, | 1997 |
|---|------------------------|---------------------------|
| | Cost | Estimated Market Value |
| Available-for-Sale: Corporate debt securities Other debt securities | \$6,726,919 869,634 | 6,726,919 869,634 |
| Totals | \$7,596,553 ======= | 7,596,553 |

Note 6 Inventory

The major components of inventory are as follows:

| | December 31, | |
|-----------------------------------|--------------|-----------|
| | 1998 | 1997 |
| | | |
| Raw materials and work-in-process | \$ 743,383 | 834,496 |
| Finished goods | 2,216,060 | 1,804,633 |
| | | |
| Total inventory | \$2,959,443 | 2,639,129 |
| | ======== | ======== |

Note 7 Property and Equipment

Property and equipment consist of the following:

| | December 31, | | |
|--|-------------------------|-----------------------|--|
| | 1998 | 1997 | |
| Building | \$ 1,831,392 | 1,823,625 | |
| Land and improvements Leasehold improvements | 163,519 1,423,584 | 163,519 1,233,074 | |
| Furniture and equipment | 14,504,305 | 13,001,437 | |
| Total property and equipment Accumulated depreciation | 17,922,800 | 16,221,655 | |
| and amortization | (9,278,944) | (9,450,482) | |
| Property and equipment, net | \$ 8,643,856 ======= | 6,771,173 ======== | |

Depreciation expense amounted to \$837,064, \$709,802 and \$976,163 for the years ended December 31, 1998, 1997, and 1996, respectively.

Note 8 Long-Term Debt

Long-term debt consists of the following:

| | | ber 31, |
|---|---------------|---------------------|
| | 1998 | 1997 |
| Bank loan, interest payable monthly, principal due in non-equal installments commencing December 1, 1996 through March 1, 1999, secured by the assets and operating cash flow of a subsidiary of the Company and guaranteed by the Company | \$1,550,000 | 2,550,000 |
| Term loan, subordinated to bank loan, interest payable quarterly, principal due in non-equal installments commencing December 1, 1996 through March 1, 1999, secured by the assets and operating cash flows of a subsidiary of the Company and guaranteed by the Company | 852,500 | 1,402,500 |
| Term loan, principal and interest due in equal monthly installments commencing October 1996 through December 1999, secured by certain real and personal property | 652,960 | 1,626,349 |
| Total | 3,055,460 | |
| Less current portion | 3,055,460 | 2,523,389 |
| Long-term debt | \$ ======= | 3,055,460 ====== |

In 1995, the Company received an aggregate amount of \$8,122,334 from three financing arrangements.

The first financing arrangement was a \$3,000,000 bank loan with an interest rate equal to two percentage points above the Prime Rate (7.75% as of December 31, 1998). The loan is secured by the assets and operating cash flows of a subsidiary of the Company and guaranteed by the Company.

The second financing arrangement was a \$1,650,000 term loan with a syndicate of lenders and a fixed interest rate of 14%. The loan is also secured by the assets and operating cash flows of a subsidiary of the Company and guaranteed by the Company. The security interest of the debt holders is subordinated to the bank loan's security interest.

In the third quarter of 1995, the Company consummated a transaction whereby certain assets were sold to a third party and subsequently leased back for a fixed rental stream over a period of forty-eight months. The Company has the option either to purchase all the properties at the expiration of the term of the lease or extend the term of the lease. The Company reported this transaction as a financing transaction since the requirements for consummation of a sale were not met. A deposit of \$188,000 with the lender was offset against the loan balance as of December 31, 1998 and 1997. This transaction has been reflected in the table above as a term loan.

The terms of certain financing agreements contain, among other provisions, requirements for a subsidiary of the Company to maintain defined levels of earnings, net worth and various financial ratios, including debt to net worth. In conjunction with the debt financing agreements, APS issued a total of 197,500 warrants with an original exercise price of \$7.00 per share of common stock. In accordance with the original terms of the warrant agreements, the exercise price on 110,000 of the warrants outstanding at December 31, 1997 was reduced to \$3.00 per share on December 31, 1997 as a result of the Company reporting a net loss for the 1997 fiscal year.

All costs incurred in obtaining the financing arrangements have been capitalized as deferred charges, and are being amortized over the life of the loans using the effective interest method. Interest paid in 1998, 1997 and 1996 approximated interest expense reflected in the Consolidated Statements of Operations.

Note 9 Commitments

Lease Commitments: Total rental expense for property and equipment was \$1,019,534, \$770,187 and \$655,283 for 1998, 1997 and 1996, respectively.

The Company's future minimum lease payments under noncancellable operating leases for facilities as of December 31, 1998, are as follows:

> Years Ending December 31,

Minimum Payments

| 1999 | \$ 768,2 | 79 |
|------------|------------|----|
| 2000 | 770,84 | 49 |
| 2001 | 747,4 | 55 |
| 2002 | 737,33 | 33 |
| 2003 | 675,13 | 35 |
| Thereafter | 573,4 | 74 |
| | | |
| | \$4,272,52 | 25 |
| | ======== | == |

Note 10 Shareholders' Equity

Private Placements and Common Stock Warrants: In January 1996, in accordance with a 1994 private placement agreement, APS issued J&J 432,101 shares of common stock as a result of the APS stock price not achieving certain predetermined levels. The 200,000 warrants issued to J&J in conjunction with this private placement expired in 1996 (Note 15).

During 1997, 925,158 warrants issued in connection with a 1994 private placement were exercised. In March 1998, the remaining 310,278 warrants from the 1994 private placement were exercised.

In conjunction with certain debt financing agreements made in 1995 (Note 8), APS issued a total of 197,500 warrants with an original exercise price of \$7.00 per share of common stock. In accordance with the warrant agreements, the exercise price was reduced to \$3.00 on December 31, 1997 as a result of the Company reporting a net loss for the 1997 fiscal year. These warrants expire on March 27, 2000.

In the first quarter of 1996, the Company formed a collaborative agreement with Lander Company under which the Company received approximately \$2,961,000 in net proceeds from the sale of 356,761 shares of common stock. The agreement also provided for licensing fees, research and development funding and royalties on product sales.

In 1996, APS acquired all patents and rights to the Polytrap technology from Dow Corning in exchange for 200,000 shares of APS common stock (Note 2).

During the second quarter of 1996, APS received \$1,937,851 net of offering costs, through a private placement and sale of 201,922 shares of common stock and 86,538 warrants exercisable over a three-year period. The warrants are exercisable at the following prices:

| Exercise Price |
|----------------|
| |
| \$ 7.43 |
| 9.90 |
| 12.38 |
| |

Shareholders Rights Plan: On August 19, 1996, the Board of Directors approved a Shareholders Rights Plan under which shareholders of record on September 3, 1996 received a dividend of one Preferred Stock purchase right ("Rights") for each share of common stock outstanding. The Rights were not exercisable until 10 business days after a person or group acquired 20% or more of the outstanding shares of common stock or announced a tender offer which could have resulted in a person or group beneficially owning 20% or more of the outstanding shares of common stock (an "Acquisition") of the Company. The Board of Directors approved an increase in threshold to 30% in December 1997. Each Right, should it become exercisable, will entitle the holder (other than acquirer) to purchase company stock at a discount. The Board of Directors may terminate the Rights plan or, under certain circumstances, redeem the rights.

In the event of an Acquisition without the approval of the Board, each Right will entitle the registered holder, other than an acquirer and certain related parties, to buy at the Right's then current exercise price a number of shares of common stock with a market value equal to twice the exercise price.

In addition, if at the time when there was a 30% shareholder, the Company were to be acquired by merger, shareholders with unexercised Rights could purchase common stock of the acquirer with a value of twice the exercise price of the Rights.

The Board may redeem the Rights for \$0.01 per Right at any time prior to Acquisition. Unless earlier redeemed, the Rights will expire on August 19, 2006.

Stock-Based Compensation Plans: The Company has two types of stock-based compensation plans, a stock purchase plan and stock option plans.

In 1997, the stockholders approved the Company's 1997 Employee Stock Purchase Plan (the "Plan"). Under the 1997 Employee Stock Purchase Plan, the Company is authorized to issue up to 400,000 shares of common stock to its employees, nearly all of whom are eligible to participate. Under the terms of the Plan, employees can elect to have up to a maximum of 10 percent of their base earnings withheld to purchase the Company's common stock. The purchase price of the stock is 85 percent of the lower of the closing prices for the Company's common stock on: (i) the first trading day in the enrollment period, as defined in the Plan, in which the purchase is made, or (ii) the purchase date. The length of the enrollment period may not exceed a maximum of 24 months. Enrollment dates are the first business day of May and November provided that the first enrollment date was April 30, 1997. Approximately 50 percent of eligible employees participated in the Plan in 1998. Under the Plan, the Company issued 38,614 shares in 1998, 14,545 shares in 1997 and no shares in 1996. The weighted average fair value of purchase rights granted during 1998 and 1997 were \$1.65 and \$2.77, respectively. The weighted average exercise price of the purchase rights exercised during 1998 and 1997 were \$3.83 and \$6.00, respectively. As of December 31, 1998, the Company had 346,841 shares reserved for issuance under the stock purchase plan.

The Company has various stock option plans for employees, officers, directors and consultants. The options are granted at fair market value and expire no later than ten years from the date of grant. The options are exercisable in accordance with vesting schedules that generally provide for them to be fully exercisable four years after the date of grant.

The following table summarizes option activity for 1998, 1997 and 1996:

| 1998 | 1997 | | 199 | 96 | | | |
|---|------|--|--|--|--|--|--|
| | | | eighted Average xercise Price | | Veighted Average Exercise Price | Shares | Weighted Average Exercise Price |
| Outstanding at beginning of year Granted Exercised Expired or Cancelled | | 2,947,755 777,000 (79,598) (77,974) | | 2,901,440 313,500 (165,374) (101,811) | | 2,972,324 502,500 (416,219) (157,165) | \$5.98 7.89 4.80 6.25 |
| Outstanding at end of yea | ar | 3,567,183 | 6.32 | 2,947,755 | 6.63 | 2,901,440 | 6.46 |
| Options exercisable at year-end Shares available for futu grant at year end Weighted-average fair | ure | 2,698,960 293,269 | | 2,259,683 358,295 | | 1,945,056 569,984 | |
| value of options granted during the year | b | | \$2.45 | | \$4.25 | | \$5.12 |

The following table summarizes information about fixed stock options outstanding at December 31, 1998:

| | OPTIONS | OUTSTANDING | | OPTIONS EX | ERCISABLE |
|---|--|---|---|---|---|
| Range of Exercise Prices | Number Outstanding 12/31/98 | Weighted Average Remaining Contractual Life | Weighted Average Remaining Exercise Price | Number Exercisable at 12/31/98 | Weighted Average Remaining Exercise Price |
| \$3.44-\$5.25 \$5.38-\$6.25 \$6.38-\$8.13 \$9.25-\$15.00 \$3.44-\$15.00 | 1,205,490 939,620 933,073 489,000 | 6.8 years 5.9 7.3 4.0 6.3 | \$ 4.55 5.66 7.28 10.12 6.32 | 875,285 796,079 538,596 489,000 2,698,960 | \$ 4.64 5.59 7.28 10.12 6.44 |

The Company has adopted the disclosure only provisions of Statement of Financial Accounting Standards No. 123, ("SFAS No. 123") "Accounting for Stock-Based Compensation." Accordingly, except for stock options issued to non-employees and restricted stock awards to employees, no compensation cost has been recognized for the various fixed stock option plans and stock purchase plan. The compensation cost that has been charged against income for the stock options issued to non-employees and restricted stock awards to employees was \$142,057, \$96,800 and \$161,300 for 1998, 1997 and 1996, respectively. Had compensation cost for the Company's stock-based compensation plans been determined consistent with the fair value method provisions of SFAS No. 123, the Company's net loss and loss per common share would have increased to the pro-forma amounts indicated below:

| | 1998 | 1997 | 1996 |
|---|--------------|-------------|--------------|
| Net income (loss) | | | |
| - as reported Net income (loss) | \$ 1,895,525 | (683,161) | (9,378,099) |
| - pro-forma | 165,570 | (2,010,319) | (10,462,871) |
| Basic earnings (loss) per common share | 0.10 | (0.04) | (0.52) |
| Diluted earnings (loss) per | 0.10 | (0.04) | (0.32) |
| common share | 0.09 | (0.04) | (0.52) |
| Basic earnings (loss) per common share - pro-forma | 0.01 | (0.11) | (0.58) |
| Diluted earnings (loss) per common share - pro-forma | 0.01 | (0.11) | (0.58) |

For stock options, the fair value of each option grant is estimated on the date of grant using the Black-Scholes option pricing model with the following weighted-average assumptions used for grants in 1998, 1997 and 1996, respectively: dividend yield of 0 for all years; expected volatility of 48 percent, 60 percent and 85 percent; risk-free interest rates of 4.7 percent, 5.7 percent and 6.1 percent; and expected life of five years, five years and four years for all the stock option plans.

For the stock purchase plan, the fair value of each award is also estimated using the Black-Scholes option pricing model. For purchase rights granted in 1998, the multiple option approach with the following assumptions were used for expected terms of six, twelve, eighteen and twenty-four months: risk-free interest rate of 5.1%; volatility of 54%; and dividend yield of zero. The purchase rights granted in 1997 were valued using the following assumptions for expected terms of six, twelve, eighteen and twenty-four months, respectively: risk-free interest rates of 5.7 percent, 5.8 percent, 6.0 percent and 6.0 percent; volatility of 40 percent for all four terms; and dividend yield of zero for all terms. There were no grants under the stock purchase plan in 1996.

The amounts disclosed above under the fair value method of SFAS No. 123 include compensation costs and fair values for options and purchase rights granted since January 1, 1995 and may not be representative of the effects in future years.

Note 11 Earnings Per Share

In the fourth quarter of 1997, the Company adopted and retroactively applied the requirements of Statement of Financial Accounting Standards No. 128, "Earnings Per Share", to all periods presented. The following table sets forth the computation of the Company's basic and diluted earnings (loss) per share:

| | 1998 | 1997 | 1996 |
|---|-------------------------|------------------------|-----------------------|
| Net income (loss) (numerator) | \$ 1,895,525 ======= | (683,161) ======= | (9,378,099) ====== |
| Shares calculation (denominator): Weighted average shares | | | |
| outstanding - basic Effect of dilutive securities: Stock options and employee | 19,854,103 | 18,778,921 | 17,987,153 |
| stock purchase plan Warrants | 381,518 145,211 | 634,655 401,257 | 859,767 647,492 |
| Weighted average shares | | | |
| outstanding - diluted | 20,380,832 ======= | 19,814,833 ======== | 19,494,412 ======= |
| Earnings (loss) per share - basic | 0.10 | (0.04) | (0.52) |
| | ======== | ========= | |
| Earnings (loss) per share - | | | |
| diluted | 0.09 | (0.04) | (0.52) |
| | ========== | ========== | ========== |

The following options with expiration dates ranging from December 18, 2001 to June 10, 2008 were outstanding during the periods presented, but were not included in the computation of diluted earnings per share since the exercise prices of the options were greater than the average market price of the common shares:

| | 1998 | 1997 | 1996 |
|--|-------------------------------|-----------------------------|------|
| | | | |
| Number outstanding Range of exercise prices | 1,362,432 \$6.81 - \$15.00 | 757,417 \$7.88 - \$15.00 | - / |

Note 12 Comprehensive Income

During the first quarter of 1998, the Company adopted Statement of Financial Accounting Standards No. 130 "Reporting Comprehensive Income" which establishes standards for reporting and display of comprehensive income and its components in a full set of general purpose financial statements. For the years ended December 31, 1998 and 1997, comprehensive income (loss) was the same as net income (loss). For the year ended December 31, 1996, a reclassification adjustment for gains included in net income is reported in the Statement of Shareholders' Equity.

Note 13 Defined Contribution Plan

The Company sponsors a defined contribution plan covering substantially all of its employees. In the past three calendar years, the Company made matching contributions equal to 50% of each participant's contribution during the plan year up to a maximum amount equal to the lesser of 3% of each participant's annual compensation or \$4,800, \$4,750 and \$4,750 for the 1998, 1997 and 1996 calendar years, respectively. The Company may also contribute additional discretionary amounts as it may determine. For the years ended December 31, 1998, 1997 and 1996, the Company contributed to the plan approximately \$124,000, \$110,000 and \$110,000, respectively. No discretionary contributions have been made to the plan since its inception.

Note 14 Income Taxes

A reconciliation of the federal statutory rate of 34% to the Company's effective tax rate is as follows:

| | December 31 | | |
|--|-----------------|-----------|-----------|
| | 1998 | 1997 | 1996 |
| U.S. Federal statutory rate (benefit) State taxes, net of federal income | 34.00% | (34.00)% | (34.00)% |
| tax benefit Net losses without benefits Utilization of temporary differences | | 31.40 | 33.75 |
| for which no benefit was previously recognized Nondeductible expenses | (34.76) 0.76 | 2.60 | 0.25 |
| Total tax expense (benefit) | | | |
| Totat tax expense (benefit) | ===== | ===== | ===== |

At December 31, 1998, the Company had net federal operating loss carryforwards of approximately \$73,400,000 for income tax reporting purposes and California operating loss carryforwards of approximately \$3,460,000. The federal net operating losses expire beginning in 1999 through the year 2018. The California net operating loss carryforwards expire beginning in 1999 through the year 2003. A federal net operating loss carryforward from 1983 in the approximate amount of \$147,000 expired December 31, 1998. A California net operating loss carryforward from 1993 in the approximate amount of \$370,000 expired on December 31, 1998.

The Company also has investment tax credits and research and experimental tax credits aggregating approximately \$1,692,000 and \$909,000 for federal and California purposes, respectively. The federal credit carryforwards expire beginning in 1999 through the year 2018. The California credits carry over indefinitely until utilized.

In addition, there are California credit carryforwards for qualified manufacturing and research and development equipment of approximately \$20,000; these credits expire beginning in 2003 through the year 2006.

The tax effects of temporary differences that give rise to significant portions of the deferred tax assets and deferred tax liabilities as of December 31, 1998 and 1997 are presented below:

| | 1998 | 1997 |
|---|-----------------------|-------------------------|
| | | |
| Deferred tax assets: Deferred research expenditures Accruals and reserves not currently deductible for tax | \$ 1,544,000 | 1,367,000 |
| purposes Net operating loss carryforwards | 977,000 25,260,000 | 1,934,000 25,680,000 |

| Credit carryforwards Other | 2,621,000 286,000 | 2,445,000 246,000 |
|---|----------------------------|----------------------------|
| Gross deferred tax assets Less valuation allowance | 30,688,000 (29,927,000) | 31,672,000 (31,522,000) |
| Total deferred tax assets | 761,000 | 150,000 |
| Deferred tax liabilities: Property and equipment | (761,000) | (150,000) |
| Total deferred tax liabilities | (761,000) | (150,000) |
| Net deferred taxes | \$ | |

The net change in the valuation allowance for the year ended December 31, 1998 was a decrease of approximately \$1,595,000. The net change in the valuation allowance for the years ended December 31, 1997 and 1996 was an increase of approximately \$340,000 and \$3,756,000, respectively. Management believes that sufficient uncertainty exists regarding the realizability of its deferred asset and, accordingly, a valuation allowance is required.

Gross deferred tax assets as of December 31, 1998 include approximately \$2,800,000 relating to the exercise of stock options, for which any related tax benefits will be credited to equity when realized.

Note 15 Ortho-McNeil Pharmaceutical Corporation

In May 1992, APS entered into development, and licensing and investment agreements with Ortho-McNeil Pharmaceutical Corporation ("Ortho") for the development of retinoid products. The first product is a Microsponge system entrapment of tretinoin (trans-retinoic acid or "t-RA"), a prescription acne drug for which FDA approval was received in February 1997. A second product licensed to Ortho is a Microsponge entrapment of a retinoid to be used for the treatment of photodamaged skin.

The terms of the agreements included an \$8,000,000 investment in APS for 723,006 newly issued shares of APS common stock and the payment to APS of \$6,000,000 in R&D fees by J&J.

J&J made a second equity investment in the Company in May 1994. Under this agreement, J&J purchased 1,000,000 shares of newly issued common stock in consideration for \$5,000,000. In January 1996, APS issued J&J 432,101 shares of common stock as a result of the APS stock price not achieving certain predetermined levels. The 200,000 warrants issued in 1994 to J&J in conjunction with this equity investment expired in 1996. As of December 31, 1998, J&J owned approximately 7% of the APS common shares outstanding.

In February 1995, APS received \$750,000 in prepaid royalties and an additional \$750,000 as a milestone payment on the submission to the FDA of its New Drug Application for the tretinoin prescription acne treatment. The milestone payment was recognized as revenue upon receipt. The prepaid royalties of \$750,000 were recorded as deferred revenues. In February 1997, upon receipt of approval from the FDA to market Retin-A(R) Micro (tretinoin gel) microsphere for the treatment of acne, APS received \$3,000,000 from Ortho of which one half is a milestone payment which was recognized as deferred royalties which was recorded as deferred royalties which was recorded as deferred revenues. APS earns a mark-up on Microsponge systems supplied to Ortho and Ortho pays APS a royalty on product sales, subject to certain minimums. Should these minimums not be achieved, Ortho would lose its exclusivity and APS would regain marketing rights to the retinoid products.

Note 16 Subsequent Event (Unaudited)

In March 1999, the Company received a \$4,000,000 term loan with a fixed interest rate of 13.87%. The loan is secured by the assets of the Company's manufacturing facility in Louisiana. Principal and interest payments are due in equal monthly installments over a period of forty-eight months commencing March 1999.

The term loan was obtained mainly to refinance the scheduled debt repayments made in the first quarter of 1999.

The Board of Directors and Shareholders Advanced Polymer Systems, Inc.:

We have audited the accompanying consolidated balance sheets of Advanced Polymer Systems, Inc. and subsidiaries as of December 31, 1998 and 1997, and the related consolidated statements of operations, shareholders' equity, and cash flows for each of the years in the three-year period ended December 31, 1998. In connection with our audits of the consolidated financial statements, we also have audited the consolidated financial statement schedule as listed in Item 14(a)2. These consolidated financial statements and consolidated financial statement schedule are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements and the financial statement schedule based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Advanced Polymer Systems, Inc. and subsidiaries as of December 31, 1998 and 1997, and the results of their operations and their cash flows for each of the years in the three-year period ended December 31, 1998, in conformity with generally accepted accounting principles. Also in our opinion, the related financial statement schedule, when considered in relation to the basic consolidated financial statements taken as a whole, presents fairly, in all material respects, the information set forth therein.

/s/KPMG LLP

San Francisco, California March 12, 1999

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Not applicable.

Part III

Item 10. Directors and Executive Officers of the Registrant

APS incorporates by reference the information set forth under the captions "Nomination and Election of Directors" and "Executive Compensation" of the Company's Proxy Statement (the "Proxy Statement") for the annual meeting of shareholders to be held on June 16, 1999.

Item 11. Executive Compensation

APS incorporates by reference the information set forth under the caption "Executive Compensation" of the Proxy Statement.

Item 12. Security Ownership of Certain Beneficial Owners and Management

The Company incorporates by reference the information set forth under the caption "Beneficial Stock Ownership" of the Proxy Statement.

Item 13. Certain Relationships and Related Transactions

The Company incorporates by reference the information set forth under the caption "Certain Transactions" of the Proxy Statement.

Part IV

Item 14.

8-K (a) 1. Financial Statements The financial statements and supplementary data set forth in Part II of the 10-K Annual Report are incorporated herein by reference. 2. Financial Statement Schedules Schedule II Valuation Accounts All other schedules have been omitted because the information is not required or is not so material as to require submission of the schedule, or because the information is included in the financial statements or the notes thereto. 3. Exhibits 3-A-Copy of Registrant's Certificate of Incorporation. (1) 3-B-Copy of Registrant's Bylaws. (1) 10-C-Registrant's 1992 Stock Plan dated August 11, 1992. (2)* 10-D-Registrant's 1997 Employee Stock Purchase Plan dated March 5, 1997 (9)* 10-E-Lease Agreement between Registrant and Metropolitan Life Insurance Company for lease of Registrant's executive offices in Redwood City dated as of November 17, 1997. (11) 10-N-Agreement with Johnson & Johnson dated April 14, 1992. (3) 10-P-Warrant to Purchase Common Stock. (5) 10-S-Lease Agreement between Registrant and Financing for Science International dated September 1, 1995 (6) 10-T-Security and Loan Agreement between Registrant and Venture Lending dated September 27, 1995 (6) 10-U-Asset Purchase Agreement with Dow Corning Corporation dated January 23, 1996 (7) 10-V-Investment Agreement between Registrant and Lander Company. (8)10-W-License, Assignment and Supply Agreement between Registrant and Lander Company. (10) 21-Proxy Statement for the Annual Meeting of Shareholders. (4) 23-Consent of Independent Auditors. 27-Financial Data Schedules (b) Reports on Form 8-K None. (c) Exhibits The Company hereby files as part of this Form 10-K the exhibits listed in Item 14(a)3 as set forth above. (d) Financial Statement Schedules See Item 14(a)2 of this Form 10-K. (1)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Registration Statement on Form S-1 (Registration No. 33-15429) and incorporated herein by reference. (2)Filed as Exhibit No. 28.1 to Registrant's Registration Statement on Form S-8 (Registration No. 33- 50640), and incorporated herein by reference. (3)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Annual Report on Form 10-K for the year ended December 31, 1992, and incorporated herein by reference. (4) To be filed supplementally. (5)Filed as an Exhibit with corresponding Exhibits 4.1, 4.2, 4.3 and 4.4 to Registrant's Registration Statement on Form S-3 (Registration No.33-82562) and incorporated herein by reference. (6)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 1995. (7)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Annual Report on Form 10-K for the year ended December 31, 1995, and incorporated herein by reference. (8) Filed as an Exhibit with corresponding Exhibit No. to Registrant's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 1996, and incorporated herein by referenced. (9)Filed an Exhibit No. 99.1 to Registrant's Registration Statement on Form S-8 (Registration No. 333-35151), and incorporated herein by reference. (10)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Annual Report on Form 10-K for the year ended December 31, 1996 and incorporated herein by reference. (11)Filed as an Exhibit with corresponding Exhibit No. to Registrant's Annual Report on Form 10-K for the year ended December 31, 1997, and incorporated herein by reference.

Exhibits, Financial Statement Schedules, and Reports on Form

Management Contract or Compensatory plans.

For purposes of complying with the amendments to the rules governing Registration Statements on Form S-8 (effective July 13, 1990) under the Securities Act of 1933 ("the Act"), as amended, the undersigned registrant hereby undertakes as follows, which undertaking shall be incorporated by reference into Part II of the registrant's Registration Statements on Form S-8 Nos. 33-18942, 33-21829, 33-29084, 33-50640, 333-06841, 333-35151 and 333-60585 filed on April 25, 1990, May 12, 1988, September 30, 1991, August 11, 1992, June 26, 1996, September 8, 1997 and August 4, 1998, respectively.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirement of Section 13 or 15 (d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ADVANCED POLYMER SYSTEMS, INC.

By: /s/John J. Meakem, Jr. John J. Meakem, Jr. Chairman, President, Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed by the following persons in the capacities and on the dates indicated.

| Signature | Title | Date |
|--|--|--------------------------|
| /S/ John J. Meakem, Jr. John J. Meakem, Jr. | Chairman, President, Chief Executive Officer | March 29, 1999 |
| /S/ Michael O'Connell Michael O'Connell | Executive Vice President, Chief Administrative Officer a Chief Financial Officer | nd March 29, 1999 |
| /S/ Carl Ehmann Carl Ehmann | Director | March 29, 1999 |
| /S/ Jorge Heller - Jorge Heller | Director | March 29, 1999 |
| /S/ Peter Riepenhausen Peter Riepenhausen | Director | March 29, 1999 |
| /S/ Toby Rosenblatt - Toby Rosenblatt | Director | March 29, 1999 |
| /S/ Gregory H. Turnbull Gregory H. Turnbull | | March 29, 1999 |
| /S/ C. Anthony Wainwright C. Anthony Wainwright | | March 29, 1999 |
| /S/ Dennis Winger Dennis Winger | Director | March 29, 1999 |

Schedule II

Valuation Accounts

| | 0 0 | Additions Charged to ense Deduct | tions Balar | Ending nce |
|--|----------------|--|-------------|---------------|
| December 31, 1996 Accounts receivable, allowan for doubtful accounts | ce \$68,650 | 9,331 | 30,454 | 47,527 |
| December 31, 1997 Accounts receivable, allowan for doubtful accounts | ce 47,527 | 22,967 | 13,040 | 57,454 |
| December 31, 1998 Accounts receivable, allowan for doubtful accounts | ce 57,454 | 38,830 | | 96,284 |

The Board of Directors and Shareholders Advanced Polymer Systems, Inc.:

We consent to incorporation by reference in the Registration Statements (Nos. 33-18942, 33-21829, 33-29084, 33-50640, 333-06841, 333-35151 and 333-60585) on Forms S-8 of Advanced Polymer Systems, Inc. and in the Registration Statements (Nos. 33-47399, 33-51326, 33-67936, 33-82562, 33-88972, 333-00759, 333-042527 and 333-69815) on Forms S-3 of Advanced Polymer Systems, Inc. of our report dated March 12, 1999, relating to the consolidated balance sheets of Advanced Polymer Systems, Inc. and subsidiaries as of December 31, 1998 and 1997, and the related consolidated statements of operations, shareholders' equity and cash flows for each of the years in the three-year period ended December 31, 1998, and the related schedule, which report appears in the December 31, 1998 annual report on Form 10-K of Advanced Polymer Systems, Inc.

/s/KPMG LLP

San Francisco, California March 26, 1999

EXHIBIT INDEX Form 10-K Annual Report

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Management Contract or Compensatory plans.

THE SCHEDULE CONTAINS SUMMARY FINANCIAL INFORMATION EXTRACTED FROM THE UNAUDITED CONDENSED CONSOLIDATED BALANCE SHEET AS OF DECEMBER 31, 1998, AND CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS FOR THE 12 MONTHS ENDED DECEMBER 31, 1998, AND IS QUALIFIED IN ITS ENTIRETY BY REFERENCE TO SUCH FINANCIAL STATEMENTS.

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1
                      YEAR
          DEC-31-1998
                DEC-31-1998
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          1,895,525
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                      0.10
                      0.09
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