

ARBIOS SYSTEMS INC  
Form SB-2  
June 14, 2004

As filed with the Securities and Exchange Commission on June 14, 2004 Reg. No. \_\_\_\_\_

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U.S. SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

**FORM SB-2**

**REGISTRATION STATEMENT  
UNDER THE SECURITIES ACT OF 1933**

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**Arbios Systems, Inc.**

(Name of Small Business Issuer in its Charter)

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**Nevada**  
(State of jurisdiction of incorporation  
or organization)

**3841**  
(Primary Standard Industrial  
Classification Code Number)

**91-19553323**  
(I.R.S. Employer Identification No.)

**8797 Beverly Blvd.,  
Los Angeles, California 90048  
(310) 657-4898**

(Address and telephone number of principal executive offices and principal place of business)

**Jacek Rozga, M.D., Ph. D  
President  
8797 Beverly Blvd.,  
Los Angeles, California 90048  
(310) 657-4898**

(Name, address and telephone number of agent for service)

**Copy to:**

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1801 Century Park East, Suite 1600  
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Approximate date of proposed sale to the public: From time to time after the date this registration statement becomes effective.

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

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

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

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

### CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered	Proposed maximum offering price per unit <sup>(1)</sup>	Proposed maximum aggregate offering price <sup>(1)</sup>	Amount of registration fee <sup>(1)</sup>
Common stock, par value \$0.001	12,740,597(2)	\$ 3.375	\$ 42,999,515	\$ 5,448.04

(1) The price is estimated in accordance with Rule 457(c) under the Securities Act of 1933, as amended, solely for the purpose of calculating the registration fee and represents the average of the high and the low prices of the Common Stock on June 7, 2004, as reported on the OTC Bulletin Board.

(2) Of these shares, 7,143,097 are currently outstanding shares to be offered for resale by selling stockholders and 5,597,500 shares are currently unissued shares to be offered for resale by selling stockholders following issuance upon exercise of outstanding warrants. In addition to the shares set forth in the table, the amount to be registered includes an indeterminate number of shares issuable upon exercise of the warrants, as such number may be adjusted as a result of stock splits, stock dividends and similar transactions in accordance with Rule 416.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

PROSPECTUS

[ARBIOS SYSTEMS LOGO]

**ARBIOS SYSTEMS, INC.**

12,740,597 Shares of Common Stock

This prospectus relates to the sale of up to 7,143,097 shares of our currently outstanding shares of common stock that are owned by some of our stockholders, and 5,597,500 shares of our common stock issuable upon the exercise of currently outstanding common stock purchase warrants held by some of our stockholders. For a list of the selling stockholders, please see "Selling Stockholders." We are not selling any shares of common stock in this offering and therefore will not receive any proceeds from this offering. We will, however, receive the exercise price of the warrants if and when those warrants are exercised by the selling stockholders. None of the warrants has been exercised as of the date of this prospectus. We will pay the expenses of registering these shares.

Our common stock is traded in the over-the-counter market and is quoted on the OTC Bulletin Board under the symbol ABOS. On June 10, 2004, the closing price of our common stock was \$3.50 per share.

The shares included in this prospectus may be offered and sold directly by the selling stockholders in the open market at prevailing prices or in individually negotiated transactions, through agents designated from time to time or thorough underwriters or dealers. We will not control or determine the price at which a selling stockholder decides to sell its shares. Brokers or dealers effecting transactions in these shares should confirm that the shares are registered under applicable state law or that an exemption from registration is available.

**You should understand the risks associated with investing in our common stock. Before making an investment, read the Risk Factors, which begin on page 4 of this prospectus.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of the prospectus. Any representation to the contrary is a criminal offense.**

The date of this prospectus is \_\_\_\_\_, 2004.

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## PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus; it does not contain all of the information you should consider before investing in our common stock. Read the entire prospectus before making an investment decision.

Throughout this prospectus, the terms we, us, our, and our company refer to Arbios Systems, Inc., a Nevada corporation formerly known as Historical Autographs U.S.A., Inc., and, unless the context indicates otherwise, also includes our wholly-owned subsidiary, Arbios Technologies, Inc., a Delaware corporation.

A glossary of certain terms used in this prospectus is contained on page 51 under Glossary of Terms.

### Company Overview

Arbios Systems, Inc. is a Nevada corporation based in Los Angeles, California. Through our wholly owned subsidiary, Arbios Technologies, Inc. (ATI), a Delaware corporation, we seek to develop, manufacture and market liver assist devices to meet the urgent need for therapy of liver failure.

**Products Under Development.** We currently have two products in development for the treatment of acute and chronic liver failure; a novel blood purification therapy called selective plasma filtration therapy (SEPET) and an extracorporeal, bioartificial liver (BAL) device that incorporates porcine hepatocytes (pig liver cells).

Our SEPET product consists of a single-use cartridge that is designed to remove toxins in the patient's blood. The SEPET cartridge is placed on a blood perfusion apparatus (such as a standard kidney dialysis machine) that is attached to the patient's blood circulation system. At the end of the selective plasma filtration treatment, the SEPET disposable cartridges is discarded, and a new cartridge is used for the next therapy.

We currently have two BAL systems in development that are based on similar technologies and that depend upon our proprietary method of procuring, cryopreserving (freezing), storing and handling the porcine hepatocytes (pig liver cells) used in both BALs to provide essential liver functions.

**LIVERAID.** In 2000 we commenced the development of LIVERAID, a bioartificial liver cartridge that incorporates several proprietary components and technologies, including a single-use dual hollow-fiber cartridge with fiber-within-fiber geometry. The module is attached to a base instrument which facilitates perfusion of the LIVERAID with a patient's plasma. LIVERAID currently is in pre-clinical development.

**BAL 2004.** In April 2004 we purchased a BAL system from Circe Biomedical, Inc., known as the HepatAssist system. This system includes a standard hollow fiber single-use cartridge designed to contain approximately 7 billion pig cells, and a proprietary perfusion apparatus. We believe that the original HepatAssist system can be enhanced by, among other things, doubling the number of pig cells in the cartridge and by using the perfusion platform contemplated for LIVERAID. We currently refer to this enhanced version of the HepatAssist system as our BAL 2004.

We purchased the Circe Biomedical assets in order to facilitate and accelerate the development of LIVERAID. However, since the original HepatAssist system has already been tested on over 100 patients in FDA-approved clinical studies, we are currently evaluating the possibility of conducting clinical studies of the BAL 2004 system under a modified version of the FDA-approved Phase III IND protocol that we acquired. The timing and allocation of resources to the development of LIVERAID and/or BAL 2004 will depend upon various factors, including FDA regulatory requirements and our future financial resources.

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We currently own 11 U.S. patents applicable to our liver support technologies, one U.S. patent application, and three foreign patent applications. In addition, we are the licensee of seven patents.

Company History. Arbios Systems, Inc. was originally incorporated in February 1999 as Historical Autographs U.S.A., Inc. ( HAUSA ). Until October 2003, HAUSA was an e-commerce based company engaged in the business of acquiring and marketing historical documents. On October 30, 2003, HAUSA completed a reorganization (the Reorganization ) in which HAUSA, through its wholly-owned subsidiary, acquired all of the outstanding shares of ATI in exchange for 11,930,598 shares of our common stock. As a result of the Reorganization, ATI became the wholly-owned subsidiary of HAUSA. After the Reorganization, HAUSA changed its name to Arbios Systems, Inc., replaced its officers and directors with those of ATI, closed its offices, ceased its e-commerce business, and moved its offices to Los Angeles, California. We currently do not plan to conduct any business other than the business of developing liver assisted devices as heretofore conducted by ATI.

	<u>The Offering</u>
Common stock offered by the selling stockholders	12,740,597 shares, consisting of 7,143,097 outstanding shares owned by selling stockholders and 5,597,500 shares issuable to selling stockholders upon exercise of outstanding warrants.
Common stock currently outstanding	13,198,097 shares (1)
Common stock to be outstanding after the offering, assuming no exercise of the warrants	13,198,097 shares (1)
Common stock to be outstanding after the offering, assuming the exercise of all warrants	18,795,598 shares (1)
OTC Bulletin Board Trading Symbol	ABOS
Risk Factors	An investment in our common stock involves significant risks. See Risk Factors beginning on page 4

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- (1) In addition to these outstanding shares of common stock, as of May 31, 2004, there were outstanding options to purchase 644,000 shares of our common stock (with exercise prices ranging from \$0.15 per share to \$2.60 per share).

## RISK FACTORS

An investment in our common stock involves a high degree of risk. You should carefully consider the risks described below and the other information contained in this prospectus and in the documents incorporated by reference before deciding to invest in our company. If any of the following risks actually occur, our business, financial condition or operating results and the trading price or value of our securities could be materially adversely affected.

### RISKS RELATED TO OUR BUSINESS

*We are an early-stage company subject to all of the risks and uncertainties of a new business.*

We are a start-up company that has not generated any operating revenues to date (our only revenues were two government research grants). Accordingly, while we have been in existence since November 1999, and ATI, our operating subsidiary, has been in existence since 2000, we should be evaluated as a new, start-up company, subject to all of the risks and uncertainties normally associated with a new, start-up company. As a start-up company, we expect to incur significant operating losses for the foreseeable future, and there can be no assurance that we will be able to validate and market products in the future that will generate revenues or that any revenues generated will be sufficient for us to become profitable or thereafter maintain profitability.

*We have had no product sales to date, and we can give no assurance that there will ever be any sales in the future.*

All of our products are still in research or development, and no revenues have been generated to date from product sales. There is no guarantee that we will ever develop commercially viable products. To become profitable, we will have to successfully develop, obtain regulatory approval for, produce, market and sell our products. There can be no assurance that our product development efforts will be successfully completed, that we will be able to obtain all required regulatory approvals, that we will be able to manufacture our products at an acceptable cost and with acceptable quality, or that our products can be successfully marketed in the future. We currently do not expect to receive significant revenues from the sale of any of our products for at least the next few years.

*We must obtain governmental approval for each of our products, the receipt of which is uncertain.*

The development, production and marketing of our products are subject to extensive regulation by government authorities in the United States and other countries. In the U.S., SEPET and our BAL systems will require approval from the FDA prior to clinical testing and commercialization. The process for obtaining FDA approval to market therapeutic products is both time-consuming and costly, with no certainty of a successful outcome. This process includes the conduct of extensive pre-clinical and clinical testing, which may take longer or cost more than we currently anticipate due to numerous factors, including without limitation, difficulty in securing centers to conduct trials, difficulty in enrolling patients in conformity with required protocols and/or projected timelines, unexpected adverse reactions by patients in the trials to our products, temporary suspension and/or complete ban on trials of our products due to the risk of transmitting pathogens from the xenogeneic biologic component, and changes in the FDA's requirements for our testing during the course of that testing. We have not yet established with the FDA the nature and number of clinical trials that the FDA will require in connection with its review and approval of either SEPET or our BAL systems and these requirements may be more costly or time-consuming than we currently anticipate.

Each of our products in development is novel both in terms of its composition and function. Thus, we may encounter unexpected safety, efficacy or manufacturing issues as we seek to obtain marketing approval for products from the FDA, and there can be no assurance that we will be able to obtain approval from the FDA or any foreign governmental agencies for marketing of any of our products. Japan's health regulatory authority has, and other countries regulatory authorities could potentially object to the marketing of any therapy that uses pig liver cells (which our BAL systems are expected to utilize) due to safety concerns. The failure to receive, or any significant delay in receiving, FDA approval, or the imposition of significant limitations on the indicated uses of our products, would have a material adverse effect on our business, operating results and financial condition.

*Our products are at an early stage of development and have never been marketed.*

Before obtaining regulatory approvals for the commercial sale of our products, significant and potentially very costly preclinical and clinical work will be necessary. There can be no assurance that we will be able to successfully complete all required testing of SEPET or our BAL systems (which will take an extended period of time). We have not independently confirmed any of the third party claims made with respect to patents, licenses or technologies we have acquired concerning the potential safety or efficacy of these products and technologies. We will need to file an investigational new drug application ( IND ) for LIVERAID and an investigational drug exemption for SEPET with the FDA and have these applications cleared by the FDA before we can begin clinical testing of these two products, and the FDA may require significant revisions to our clinical testing plans or require us to demonstrate efficacy endpoints that are more time-consuming or difficult to achieve than what we currently anticipate. We have not yet completed preparation of either the IND or the investigational drug exemption application, and there can be no assurance that we will have sufficient experimental data to justify the submission of said applications. Because of the early stage of development of each of our products, we do not know if we will be able to generate clinical data that will support the filing of the FDA applications for these products or the FDA's approval of any product marketing approval application or IND that we do file.

*We need FDA approval before conducting clinical studies of BAL 2004 and need to obtain additional funding to conduct such studies.*

We are currently considering requesting FDA approval for a Phase III clinical study of the BAL 2004 system. Such a request will require that we supplement and/or amend the existing Phase III IND that was approved by the FDA for the original HepatAssist system on which the BAL 2004 is based. The preparation of a modified or supplemented Phase III IND will be expensive and difficult to prepare. In addition, no assurance can be given that the FDA will accept our proposed changes to the previously approved Phase III IND. The clinical tests that we would conduct under any FDA-approved protocol are very expensive to conduct and will cost much more than our current financial resources. Accordingly, even if the FDA approves the modified Phase III IND that we submit for BAL 2004, we will not be able to conduct any clinical trials until we raise substantial amounts of additional financing.

*Our BAL systems utilize a biological component obtained from pigs that could prevent or restrict the release and use of that product.*

Use of liver cells harvested from pig livers carries a risk of transmitting viruses harmless to pigs but deadly to humans. For instance, all pig cells carry genetic material of the porcine endogenous retrovirus ( PERV ), but its ability to infect people is unknown. Repeated testing, including a 1999 study of 160 xenotransplant (transplantation from animals to humans) patients and recently completed Phase II/III testing of the HepatAssist system by Circe Biomedical, Inc., has turned up no sign of the transmission of PERV to humans. Still, no one can prove that PERV or another virus would not infect BAL-treated patients and cause potentially serious disease. This may result in the FDA or other health regulatory agencies not approving our BAL systems or subsequently banning any further use of our product should health concerns arise after the product has been approved. At this time, it is unclear whether we will be able to obtain clinical and product liability insurance that covers the PERV risk.



In addition to the potential health risks associated with the use of pig liver cells, our use of xenotransplantation technologies may be opposed by individuals or organizations on health, religious or ethical grounds. Certain animal rights groups and other organizations are known to protest animal research and development programs or to boycott products resulting from such programs. Previously, some groups have objected to the use of pig liver cells by other companies, including Circe Biomedical, Inc., that were developing bioartificial liver support systems, and it is possible that such groups could object to our BAL system. Litigation instituted by any of these organizations, and negative publicity regarding our use of pig liver cells in a BAL, could have a material adverse effect on our business, operating results and financial condition.

*Uncertain development paths and markets for our products.*

Our products will represent new therapeutic approaches for disease conditions. We may, as a result, encounter delays as compared to other products under development in reaching agreements with the FDA or other applicable governmental agencies as to the development plans and data that will be required to obtain marketing approvals from these agencies. There can be no assurance that these approaches will gain acceptance among doctors or patients or that governmental or third party medical reimbursement payers will be willing to provide reimbursement coverage for our products. Moreover, we do not have the marketing data resources possessed by the major pharmaceutical companies, and we have not independently verified the potential size of the commercial markets for any of our products. Since our products will represent new approaches to treating liver diseases, it may be difficult, in any event, to accurately estimate the potential revenues from our products, as there currently are no directly comparable products being marketed.

*We will need significant additional capital, without which we will have to curtail or cease operations.*

Based on our current proposed plans and assumptions, we anticipate that our existing funds will only be sufficient to fund our operations and capital requirements for approximately 12 months from the date of this prospectus. Furthermore, the clinical development expenses of our products will be very substantial, i.e., well in excess of the amount of cash that we currently still have. Accordingly, we will have to (i) obtain additional debt or equity financing during the next 12-month period in order to fund the further development of our products and working capital needs, and/or (ii) enter into a strategic alliance with a larger pharmaceutical or biomedical company to provide its required funding. The amount of funding needed to complete the development of one or both of our products will be very substantial and may be in excess of our ability to raise capital.

We have not identified the sources for the additional financing that we will require, and we do not have commitments from any third parties to provide this financing. There can be no assurance that sufficient funding will be available to us at acceptable terms or at all. If we are unable to obtain sufficient financing on a timely basis, the development of our products could be delayed and we could be forced to reduce the scope of our pre-clinical and clinical trials or otherwise limit or terminate our operations altogether. Any equity additional funding that we obtain will reduce the percentage ownership held by our existing security holders.

*We are subject to significant competition from numerous large, well funded companies.*

The pharmaceutical, biopharmaceutical and biotechnology industry is characterized by intense competition and rapid and significant technological advancements. Many companies, research institutions and universities are working in a number of areas similar to our primary fields of interest to develop new products, some of which may be similar and/or competitive to our products. Furthermore, many companies are engaged in the development of medical devices or products that are or will be competitive with our proposed products. Most of the companies with which we compete have substantially greater financial, technical, manufacturing, marketing, distribution and other resources than us.

*We will need to outsource and rely on third parties for the clinical development and manufacture and marketing of our products.*

Our business model calls for the outsourcing of the clinical development, manufacturing and marketing of our products in order to reduce our capital and infrastructure costs as a means of potentially improving the profitability of these products for us. We have not yet entered into any strategic alliances or other licensing or contract manufacturing arrangements (except for the contractual manufacturing of LIVERAID modules by Spectrum Labs) and there can be no assurance that we will be able to enter into satisfactory arrangements for these services or the manufacture or marketing of our products. We will be required to expend substantial amounts to retain and continue to utilize the services of one or more clinical research management organizations without any assurance that the products covered by the clinical trials conducted under their management ultimately will generate any revenues for SEPET and/or our BAL systems. Consistent with our business model, we will seek to enter into strategic alliances with other larger companies to market and sell our products. In addition, we may need to utilize contract manufacturers to manufacture our products or even our commercial supplies, and we may contract with independent sales and marketing firms to use their pharmaceutical sales force on a contract basis.

To the extent that we rely on other companies to manage the conduct of our clinical trials and to manufacture or market our products, we will be dependent on the timeliness and effectiveness of their efforts. If the clinical research management organization that we utilize is unable to allocate sufficient qualified personnel to our studies or if the work performed by them does not fully satisfy the rigorous requirement of the FDA, we may encounter substantial delays and increased costs in completing our clinical trials. If the manufacturers of the raw material and finished product for our clinical trials are unable to meet our time schedules or cost parameters, the timing of our clinical trials and development of our products may be adversely affected. Any manufacturer that we select may encounter difficulties in scaling-up the manufacture of new products in commercial quantities, including problems involving product yields, product stability or shelf life, quality control, adequacy of control procedures and policies, compliance with FDA regulations and the need for further FDA approval of any new manufacturing processes and facilities. Should our manufacturing or marketing company encounter regulatory problems with the FDA, FDA approval of our products could be delayed or the marketing of our products could be suspended or otherwise adversely affected.

*We are dependent on Spectrum Laboratories, Inc. as the manufacturer of our LIVERAID™ cartridges and have no manufacturing agreements of BAL 2004.*

We have an exclusive manufacturing arrangement with Spectrum Laboratories, Inc. for the fiber-within-fiber LIVERAID cartridges. Although we have no agreement with Spectrum Laboratories, Inc. for the manufacture of the SEPET cartridges, Spectrum Laboratories has also been providing us with cartridges for prototypes of the SEPET. We have encountered certain delays in the delivery of the LIVERAID and SEPET cartridges from Spectrum Laboratories, Inc. There can be no assurance that we will not encounter delays or other manufacturing problems with Spectrum Labs with respect to our clinical or commercial supplies of LIVERAID (and/or our SEPET cartridges if we agree to have Spectrum Laboratories manufacture the SEPET cartridges). Although Spectrum Labs has agreed to transfer all of the know-how related to these products to any other manufacturer of our products if Spectrum Laboratories is unable to meet its contractual obligations to us, we may have difficulty in finding a replacement manufacturer or may be required to alter the design of the LIVERAID cartridges if we are unable to effectively transfer the Spectrum Labs know-how to another manufacturer.

We currently do not have a manufacturing arrangement for the cartridges used in the BAL 2004 system. While we believe there are several potential contract manufacturers who can produce these cartridges, there can be no assurance that we will be able to enter into such an arrangement on commercially favorable terms, or at all.

*We have uncertain patent protection and may not be able to protect our patents and proprietary rights.*

Our ability to compete successfully will depend, in part, on our ability to defend patents that have issued, obtain new patents, protect trade secrets and operate without infringing the proprietary rights of others. We currently own 11 U.S. patents on our liver support products, three foreign patents, have one patent application pending, and are the licensee of seven additional liver support patents. We have relied substantially on the patent legal work that was performed for our assignors and licensors with respect to all of these patents, application and licenses, and have not independently verified the validity or any other aspects of the patents or patent applications covering our products with our own patent counsel.

Even when we have obtained patent protection for our products, there is no guarantee that the coverage of these patents will be sufficiently broad to protect us from competitors or that we will be able to enforce our patents against potential infringers. Patent litigation is expensive, and we may not be able to afford the costs. Third parties could also assert that our products infringe patents or other proprietary rights held by them.

We will attempt to protect our proprietary information as trade secrets through nondisclosure agreements with each of our employees, licensing partners, consultants, agents and other organizations to which we disclose our proprietary information. There can be no assurance, however, that these agreements will provide effective protection for our proprietary information in the event of unauthorized use or disclosure of such information.

*The development of our products is dependent upon Dr. Rozga and certain other persons. The loss of one or more of these key persons would materially and adversely affect our business and prospects.*

We are highly dependent on Jacek Rozga, MD, PhD, our President and Chief Scientific Officer, and on several key members of our management, including, John M. Vierling, MD, FACP, Chairman of the Board, Kristin P. Demetriou, Marvin S. Hausman, MD, Richard W. Bank, MD, and Roy Eddleman who are members of our Board of Directors. Each of these individuals, except Dr. Rozga, works for us only on a part-time, very limited basis. We are also dependent upon Achilles A. Demetriou, MD, PhD, FACS, the other co-founder of ATI and the Chairman of our Scientific Advisory Board. We do not have long-term employment contracts with Drs. Jacek Rozga and Achilles A. Demetriou, and the loss of the services of either of them would have a material adverse effect on our business, operations and on the development of our products. We do not carry key man life insurance on either of these individuals.

As we expand the scope of our operations by preparing FDA submissions, conducting multiple clinical trials, and potentially acquiring related technologies, we will need to obtain the full-time services of additional senior scientific and management personnel. Competition for these personnel is intense, and there can be no assurance that we will be able to attract or retain qualified senior personnel. As we retain full-time senior personnel, our overhead expenses for salaries and related items will increase substantially from current levels.

*The market success of our products will be dependent in part upon third-party reimbursement policies.*

Our ability to successfully penetrate the market for our products may depend significantly on the availability of reimbursement for our products from third-party payers, such as governmental programs, private insurance and private health plans. We have not yet established with Medicare or any third-party payers what level of reimbursement, if any, will be available for our products, and we cannot predict whether levels of reimbursement for our products, if any, will be high enough to allow us to charge a reasonable profit margin. Even with FDA approval, third-party payers may deny reimbursement if the payer determines that our particular new products are unnecessary, inappropriate or not cost effective. If patients are not entitled to receive reimbursement similar to reimbursement for competing products, they may be unwilling to use our products since they will have to pay for the unreimbursed amounts, which may well be substantial. The reimbursement status of newly approved health care products is highly uncertain. If levels of reimbursement are decreased in the future, the demand for our products could diminish or our ability to sell our products on a profitable basis could be adversely affected.

*We may be subject to product liability claims.*

The development, manufacture and sale of medical products expose us to the risk of significant damages from product liability claims. We plan to obtain and maintain product liability insurance for coverage of our clinical trial activities. However, there can be no assurance that we will be able to secure such insurance for clinical trials for either of our two current products. We intend to obtain coverage for our products when they enter the marketplace (as well as requiring the manufacturers of our products to maintain insurance). We do not know if it will be available to us at acceptable costs. We may encounter difficulty in obtaining clinical trial or commercial product liability insurance for any BAL that we develop since this therapy includes the use of pig liver cells and we are not aware of any therapy using these cells that has sought or obtained such insurance. If the cost of insurance is too high or insurance is unavailable to us, we will have to self-insure. A successful claim in excess of product liability coverage could have a material adverse effect on our business, financial condition and results of operations. The costs for many forms of liability insurance have risen substantially during the past year, and such costs may continue to increase in the future, which could materially impact our costs for clinical or product liability insurance..

## **RISKS RELATED TO OUR COMMON STOCK**

*Our Stock Is Thinly Traded, So You May Be Unable To Sell At Or Near Ask Prices Or At All If You Need To Sell Your Shares To Raise Money Or Otherwise Desire To Liquidate Your Shares*

The shares of our common stock are thinly-traded on the OTC Bulletin Board, meaning that the number of persons interested in purchasing our common shares at or near ask prices at any given time may be relatively small or non-existent. This situation is attributable to a number of factors, including the fact that we are a small company which is relatively unknown to stock analysts, stock brokers, institutional investors and others in the investment community that generate or influence sales volume, and that even if we came to the attention of such persons, they tend to be risk-averse and would be reluctant to follow an unproven, early stage company such as ours or purchase or recommend the purchase of our shares until such time as we became more seasoned and viable. As a consequence, there may be periods of several days or more when trading activity in our shares is minimal or non-existent, as compared to a seasoned issuer which has a large and steady volume of trading activity that will generally support continuous sales without an adverse effect on share price. We cannot give you any assurance that a broader or more active public trading market for our common shares will develop or be sustained, or that current trading levels will be sustained. Due to these conditions, we can give you no assurance that you will be able to sell your shares at or near ask prices or at all if you need money or otherwise desire to liquidate your shares.

*If Securities Or Industry Analysts Do Not Publish Research Reports About Our Business, Our Stock Price And Trading Volume Could Decline.*

Small, relatively unknown companies can achieve visibility in the trading market through research and reports that industry or securities analysts publish. However, to our knowledge, no analysts either cover our company. The lack of published reports by independent securities analysts could limit the interest in our stock and negatively affect our stock price. We do not have any control over research and reports these analysts publish or whether they will be published at all. If any analyst who does cover us downgrades our stock, our stock price would likely decline. If any analyst ceases coverage of our company or fails to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

*You May Have Difficulty Selling Our Shares Because They Are Deemed Penny Stocks.*

Since our common stock is not listed on the Nasdaq Stock Market, if the trading price of our common stock remains below \$5.00 per share, trading in our common stock will be subject to the requirements of certain rules promulgated under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), which require additional disclosure by broker-dealers in connection with any trades involving a stock defined as a penny stock (generally, any non-Nasdaq equity security that has a market price of less than \$5.00 per share, subject to certain exceptions). Such rules require the delivery, prior to any penny stock transaction, of a disclosure schedule explaining the penny stock market and the risks associated therewith and impose various sales practice requirements on broker-dealers who sell penny stocks to persons other than established customers and accredited investors (generally defined as an investor with a net worth in excess of \$1,000,000 or annual income exceeding \$200,000 individually or \$300,000 together with a spouse). For these types of transactions, the broker-dealer must make a special suitability determination for the purchaser and have received the purchaser's written consent to the transaction prior to the sale. The broker-dealer also must disclose the commissions payable to the broker-dealer, current bid and offer quotations for the penny stock and, if the broker-dealer is the sole market-maker, the broker-dealer must disclose this fact and the broker-dealer's presumed control over the market. Such information must be provided to the customer orally or in writing before or with the written confirmation of trade sent to the customer. Monthly statements must be sent disclosing recent price information for the penny stock held in the account and information on the limited market in penny stocks. The additional burdens imposed upon broker-dealers by such requirements could discourage broker-dealers from effecting transactions in our common stock, which could severely limit the market liquidity of the common stock and the ability of holders of the common stock to sell their shares.

*Anti-Takeover Provisions In Our Articles Of Incorporation Could Affect The Value Of Our Stock*

Our Articles of Incorporation contains certain provisions that could be an impediment to a non-negotiated change in control. In particular, without stockholder approval we can issue up to 5,000,000 shares of preferred stock with rights and preferences determined by the board of directors. These provisions could make a hostile takeover or other non-negotiated change in control difficult, so that stockholders would not be able to receive a premium for their common stock.

Potential Issuance of Additional Common and Preferred Stock Could Dilute Existing Stockholders

We are authorized to issue up to 25,000,000 shares of common stock. To the extent of such authorization, our board of directors has the ability, without seeking stockholder approval, to issue additional shares of common stock in the future for such consideration as the board of directors may consider sufficient. The issuance of additional common stock in the future will reduce the proportionate ownership and voting power of the common stock offered hereby. We are also authorized to issue up to 5,000,000 shares of preferred stock, the rights and preferences of which may be designated in series by the board of directors. Such designation of new series of preferred stock may be made without stockholder approval, and could create additional securities which would have dividend and liquidation preferences over the common stock offered hereby. Preferred stockholders could adversely affect the rights of holders of common stock by:

- 1 exercising voting, redemption and conversion rights to the detriment of the holders of common stock;
- 1 receiving preferences over the holders of common stock regarding or surplus funds in the event of our dissolution or liquidation;
- 1 delaying, deferring or preventing a change in control of our company; and
- 1 discouraging bids for our common stock.

Substantial Sales Of Common Stock Could Cause Stock Price To Fall

As of June 8, 2004, we had outstanding 13,198,097 shares of common stock, of which approximately 11,930,597 shares were restricted securities (as that term is defined under Rule 144 promulgated under the Securities Act of 1933, as amended). Other than the shares registered for resale by this prospectus, only approximately 1,220,000 shares are currently freely tradable shares. However, as a result of the registration of the shares included in this prospectus, an additional 7,143,097 shares of our currently outstanding common stock will be able to be freely sold on the market, which number will increase to 12,740,597 shares if the warrants owned by the selling stockholders are exercised and the underlying 5,597,500 shares that are included in this prospectus are purchased. Because there currently are only 1,220,000 shares freely tradable shares, the sudden release of 12,740,597 additional freely trading shares included in this prospectus onto the market, or the perception that such shares will come onto the market, could have an adverse affect on the trading price of the stock. In addition to the shares that may be registered for re-sale under this prospectus, an additional 4,835,000 shares of restricted stock will become eligible for public resale under Rule 144 commencing in November 2004. Although Rule 144 restricts the number of shares that any one holder can sell during any three-month period under Rule 144, because more than one stockholder holds these restricted shares, a significant number of shares could legally be sold commencing in November 2004. No prediction can be made as to the effect, if any, that sales of the shares included in this prospectus or subject to Rule 144 sales commencing in November 2004, or the availability of such shares for sale, will have on the market prices prevailing from time to time. Nevertheless, the possibility that substantial amounts of common stock may be sold in the public market may adversely affect prevailing market prices for our common stock and could impair our ability to raise capital through the sale of our equity securities.

The market price of our stock may be adversely affected by market volatility.

The market price of our common stock is likely to be volatile and could fluctuate widely in response to many factors, including:

- 1 announcements of the results of clinical trials by us or our competitors,
- 1 developments with respect to patents or proprietary rights,
- 1 announcements of technological innovations by us or our competitors,
- 1 announcements of new products or new contracts by us or our competitors,
- 1 actual or anticipated variations in our operating results due to the level of development expenses and other factors,
- 1 changes in financial estimates by securities analysts and whether our earnings meet or exceed such estimates,
- 1 conditions and trends in the pharmaceutical and other industries,
- 1 new accounting standards,
- 1 general economic, political and market conditions and other factors, and
- 1 the occurrence of any of the risks described in this Annual Report.

#### **FORWARD-LOOKING STATEMENTS**

The Private Securities Litigation Reform Act of 1995 provides a safe harbor for forward-looking statements. This document contains forward-looking statements, which reflect the views of our management with respect to future events and financial performance. These forward-looking statements are subject to a number of uncertainties and other factors that could cause actual results to differ materially from such statements. Forward-looking statements are identified by words such as anticipates, believes, estimates, expects, plans, projects, ta similar expressions. Readers are cautioned not to place undue reliance on these forward-looking statements, which are based on the information available to management at this time and which speak only as of this date. We undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. For a discussion of some of the factors that may cause actual results to differ materially from those suggested by the forward-looking statements, please read carefully the information under "Risk Factors" beginning on page 4.

The identification in this document of factors that may affect future performance and the accuracy of forward-looking statements is meant to be illustrative and by no means exhaustive. All forward-looking statements should be evaluated with the understanding of their inherent uncertainty. You may rely only on the information contained in this prospectus.

We have not authorized anyone to provide information different from that contained in this prospectus. Neither the delivery of this prospectus nor the sale of common stock means that information contained in this prospectus is correct after the date of this prospectus. This prospectus is not an offer to sell or solicitation of an offer to buy these securities in any circumstances under which the offer or solicitation is unlawful.

#### **USE OF PROCEEDS**

We will not receive any proceeds from the sale of the common stock by the selling stockholders pursuant to this prospectus. However, we may receive the sale price of any common stock we sell to the selling stockholders upon exercise of the warrants. If all warrants are exercised for cash (including those that contain cash-less exercise provisions), the total amount of proceeds we would receive is \$12,628,750. Other than the warrants to purchase 150,000 shares at an exercise price of \$3.40 per share that contain cash-less exercise provisions, all other warrants must be exercised by the payment of the cash exercise price. We expect to use the proceeds we receive from the exercise of warrants, if any, for general working capital purposes. We will pay the expenses of registration of these shares, including legal and accounting fees.





**MARKET PRICE OF COMMON STOCK AND OTHER SHAREHOLDER MATTERS****Market Information**

Our common stock has been traded on the OTC Bulletin Board over-the-counter market since March 18, 2004 under the symbol ABOS. From the Reorganization until March 18, 2004, our common stock was listed on the Pink Sheets over-the-counter electronic trading system under the symbol ABOS. Before to the Reorganization on October 30, 2003, our common stock was listed on the Pink Sheets under the symbol HIAU, but there was virtually no trading in the common stock.

Our common stock will be offered in amounts, at prices, and on terms to be determined in light of market conditions at the time of sale. The shares may be sold directly by the selling stockholders in the open market at prevailing prices or in individually negotiated transactions, through agents, underwriters, or dealers. We will not control or determine the price at which the shares are sold.

To our knowledge, there was no trading in our common stock until shortly before the Reorganization on October 30, 2003, and any trading was not based on our company's current operations or prospects. Accordingly, the following table only sets forth the high and low bid information for our common stock for the periods indicated since the Reorganization. The following price information reflects inter-dealer prices, without retail mark-up, mark-down or commission and may not represent actual transactions:

<b>Quarter Ending</b>	<b>High</b>	<b>Low</b>
December 31, 2003 <sup>(1)</sup>	\$3.26	\$3.00
March 31, 2004	\$3.50	\$3.40

<sup>(1)</sup> Reflects initial trading activity commencing on November 1, 2003 through the end of the calendar quarter ended December 31, 2003.

**Holders**

As of May 31, 2004, there were approximately 138 holders of record of our common stock.

**Dividends**

We have not paid any dividends on our common stock to date and do not anticipate that we will be paying dividends in the foreseeable future. Any payment of cash dividends on our common stock in the future will be dependent upon the amount of funds legally available, our earnings, if any, our financial condition, our anticipated capital requirements and other factors that the Board of Directors may think are relevant. However, we currently intend for the foreseeable future to follow a policy of retaining all of our earnings, if any, to finance the development and expansion of our business and, therefore, do not expect to pay any dividends on our common stock in the foreseeable future.

## MANAGEMENT'S DISCUSSION AND ANALYSIS OR PLAN OF OPERATION

### Overview

On October 30, 2003, we completed a reorganization (the "Reorganization") in which Arbios Technologies, Inc. ("ATI"), our operating company, became our wholly-owned subsidiary. At the time of the Reorganization, we had virtually no assets and virtually no liabilities (prior to the Reorganization we were an e-commerce based company engaged in the business of acquiring and marketing historical documents). Shortly after the Reorganization, we changed its name to Arbios Systems, Inc. In the Reorganization, we also replaced our officers and directors with those of Arbios Technologies, Inc. Following the Reorganization, we ceased our e-commerce business, closed our former offices, and moved our offices to Los Angeles, California. We currently do not plan to conduct any business other than the business of developing liver assist devices that Arbios Technologies, Inc. has conducted since its organization.

Although we acquired ATI in the Reorganization, for accounting purposes, the Reorganization was accounted for as a reverse merger since the stockholders of ATI acquired a majority of the issued and outstanding shares of our common stock, and the directors and executive officers of ATI became our directors and executive officers. Accordingly, the financial statements contained in this prospectus, and the description of our results of operations and financial condition, reflect (i) the operations of ATI alone prior to the Reorganization, and (ii) the combined results of this company and ATI since the Reorganization. No goodwill was recorded as a result of the Reorganization.

Since the formation of ATI in 2000, our efforts have been principally devoted to research and development activities, raising capital, and recruiting additional scientific and management personnel and advisors. To date, we have not marketed or sold any product and have not generated any revenues from commercial activities, and we do not expect to generate any revenues from commercial activities during the next 12 months. Substantially all of the revenues that we have recognized to date have been Small Business Innovation Research grants (in an aggregate amount of \$249,000) that we received from the United States Small Business Administration.

Our current plan of operations for the next 12 months primarily involves research and development activities, including clinical trials for at least one of our two potential products, and the preparation and submission of applications to the FDA. The actual amounts we may expend on research and development and related activities during the next 12 months may vary significantly depending on numerous factors, including the results of our research and development programs, the results of clinical studies, and the timing and cost of regulatory submissions. However, based on our current estimates, we believe that we have sufficient financial resources to conduct our planned operations beyond the next 12 months.

In April 2004 we purchased certain assets of Circe Biomedical, Inc. including a portfolio of patents, rights to a bioartificial liver (HepatAssist), a Phase III IND, selected equipment, clinical and marketing data, and over 400 standard operating procedures and clinical protocols that have previously been reviewed by the FDA. The purchase price paid for these assets consisted of \$200,000 paid at the closing and our agreement to make a second payment, in the amount of \$250,000, on the earlier of April 12, 2006 or when we have raised, on a cumulative basis, gross proceeds of \$4 million from the issuance of debt or equity securities.

### Critical Accounting Policies

The preparation of financial statements in conformity with accounting principles generally accepted in the United States require management to make estimates and assumptions that affect the reported assets, liabilities, sales and expenses in the accompanying financial statements. Critical accounting policies are those that require the most subjective and complex judgments, often employing the use of estimates about the effect of matters that are inherently uncertain. Certain critical accounting policies, including the assumptions and judgments underlying them, are disclosed in the Note 1 to the Consolidated Financial Statements included in this prospectus. However, we do not believe that there are any alternative methods of accounting for our operations that would have a material effect on our financial statements.

### Results of Operations

#### Comparison of Three-Month Period ended March 31, 2004 to Three-Month Period ended March 31, 2003.

Since we are still developing our products and do not have any products available for sale, we have not yet generated any revenues from sales. Revenues for the three-month period ended March 31, 2003 (\$20,000) represent revenues recognized from a government research grant that we have received.

General and administrative expenses consist primarily of salaries (including salaries indirectly paid under our existing loan-out agreement with Cedars-Sinai Medical Center), office and equipment lease expenses, and professional fees and expenses. All office expenses for the three months ended March 31, 2004 and 2003 consisted solely of the expenses of our research offices located in the Cedars-Sinai Medical Center. General and administrative expenses for the three-month period ended March 31, 2004 increased by \$193,000 to \$229,000 over the three month period ended March 31, 2003 due to an increase in the number of employees and consultants employed and an increase in professional fees. On March 31, 2003, we had only four employees and consultants, which number increased to ten on March 31, 2004. In addition, professional fees increased during the three month period ended March 31, 2004 as compared to the same period in fiscal 2003 due to the legal and accounting fees and expenses related to our status as a public company and legal expenses associated with the acquisition of certain assets from Circe Biomedical, Inc., which transaction closed in April 2004. During the first quarter of 2004, we also incurred additional consulting fees in connection with our investigation of the suitability and advisability of submitting a Section 510(k) Pre-Market Notification with the FDA for our SEPET™ product. General and administrative expenses are expected to remain at a significantly higher level than in past periods due to the lease of additional office space (effective as of April 1, 2004), the addition of more employees and consultants (primarily to assist with our financial controls and investor relations strategies and to evaluate and prepare submissions to the FDA), and additional professional and other fees related to being a public company .

Research and development expenses consisted primarily of salaries for our scientists and technicians, laboratory costs, and the cost of scientific supplies. Research and development expenses for the three-month period ended March 31, 2004 increased by \$35,000 to \$121,000, over the three-month period ended March 31, 2003 because of preclinical testing of SEPET and LIVERAID . We expect our research and development activities and expenses specifically related to regulatory and clinical trial costs for SEPET to increase during the balance of the current fiscal year ending December 31, 2004.

During the three-month period ended March 31, 2004 we earned \$5,000 in interest, compared to \$400 of interest expense during the three-month period ended March 31, 2003, as a result of the cash balances that we maintained during the current fiscal quarter. In September and October 2003, we raised \$4,400,000 in the private placement of our securities. As a result, during the current fiscal quarter, we maintained cash balances of over \$3 million. In addition, we used a portion of the foregoing offering proceeds to repay all outstanding indebtedness, thereby eliminating our interest expense.

Our net loss increased by \$245,000 to \$347,000 during the three-month period ended March 31, 2004 due to the increased operating expenses incurred in the fiscal 2004 period as compared to the same period in 2003. Operating expenses are expected to further increase in the current fiscal year compared to last year as we increase our operations, while revenues are not currently anticipated.

**Comparison of Fiscal Year ended December 31, 2003 to Year ended December 31, 2002.**

Revenues for fiscal year 2003 (\$138,000) and fiscal year 2002 (\$111,000) represented revenues recognized during those periods from two government research grants that we have received. The total amount of the two grants is \$304,000, of which we have received \$249,000. We anticipate that the balance of the foregoing grants, a total of \$55,000, will be recognized as revenues and paid to us during 2004.

General and administrative expenses consist primarily of salaries, office and equipment lease expenses, and professional fees and expenses. General and administrative doubled from \$173,000 in fiscal 2002 to \$340,000 in fiscal 2003 due to an increase in the number of employees and consultants employed by us in fiscal 2003, and increased professional fees. In addition, professional fees increased during 2003 due to the legal and accounting fees and expenses related to the Reorganization and the additional legal, consulting and accounting fees and expenses related to our status as an active public company. General and administrative expenses are expected to significantly increase during the current fiscal year ending December 31, 2004 due to the lease of additional office space (which new lease went into effect on April 1, 2004), the addition of more employees and consultants (primarily to assist with our financial controls and to evaluate and prepare submissions to the FDA), and additional professional and other fees related to being a public company.

Research and development expenses consisted primarily of salaries for our scientists and technicians, laboratory costs, and the cost scientific supplies. Research and development expenses remained substantially unchanged from fiscal 2002 to fiscal 2003 because of the limited amount of capital available to us during most of fiscal 2003 and because of our focus on completing the studies sponsored and funded by the SBIR. However, we expect our research and development activities and expenses to increase significantly in the current fiscal year ending December 31, 2004.

Interest expense increased from \$1,000 in fiscal 2002 to \$243,000 in fiscal 2003 due to the accounting treatment of the \$400,000 we borrowed from certain investors during fiscal 2003. The \$400,000 aggregate amount of loans were represented by convertible notes that were issued to the investors. In addition to the convertible loans, the investors also received, in the aggregate, warrants to purchase 300,000 shares of our common stock at an exercise price of \$1.00 per share. All of the loans were converted by the investors in October 2003 into 400,000 shares of common stock and warrants to purchase an additional 400,000 shares at a price of \$2.50 per share. Most of the \$243,000 interest expense in fiscal 2003 represented a non-cash expense recognized under accounting rules based on the value of conversion feature of the convertible notes and the value attributed to the warrants. Since the convertible notes have all been converted, no additional interest will be accrued under these notes during the current fiscal year.

Our net loss increased to \$886,000 in fiscal 2003 from \$495,000 in fiscal 2002 due to the increased operating and other expenses incurred in fiscal 2003. Operating expenses are expected to further increase in the current fiscal year as we increase our operations, while revenues are expected to remain insignificant.

### Liquidity and Capital Resources

As of March 31, 2004, we had cash of \$3,147,000 and \$93,000 of total indebtedness (both long-term and current liabilities). We do not have any bank credit lines. To date, we have funded our operations primarily from the sale of debt and equity securities and an SBIR government grant. During fiscal 2003, sales of our securities consisted of the following: (i) \$250,000 obtained in January 2003 from the sale of our common stock sold at a price of \$0.60 per share; (ii) \$400,000 raised from the sale of subordinated convertible promissory notes (which notes were converted in October 2003 into common stock and warrants at \$1.00 per share immediately prior to the Reorganization); (iii) \$2,310,000 raised in a private offering of common stock and warrants sold at a price of \$1.00 per share; and (iv) \$1,690,000 obtained immediately prior to the Reorganization in an offering of common stock and warrants sold at a price of \$1.00 per share. We have not, however, raised any capital from financings since the end of the fiscal year ended December 31, 2003. The 4.4 million warrant shares issued in September and October, 2003 are exercisable at \$2.50 per share and are callable by us if the common stock trades at an average price of \$4.00 per share for 20 consecutive trading days.

In April 2004 we purchased certain assets of Circe Biomedical, Inc. We paid \$200,000 of the purchase price of these assets at the closing and agreed to pay an additional \$250,000 on the earlier of April 12, 2006 or when we have raised, on a cumulative basis, gross proceeds of \$4 million from the issuance of debt or equity securities. The purchase of these assets reduced our available cash funds by \$200,000, and will further reduce our available cash by \$250,000 when the second payment is made. In addition, we assumed Circe Biomedical's obligation to pay royalties to two licensors of certain technologies. In general, we will be required to pay a royalty on net sales of certain components of that are part of our BAL system equal to 2% of such net sales to one licensor and 1% of net sales to a second licensor. We believe that the assets we acquired will significantly expedite the development of a BAL, and will lead to future cost savings in excess of the amount paid to acquire the assets. Many of the standard operating procedures and clinical protocols that we acquired will be usable by us and will eliminate the need for us to independently develop these procedures and protocols.

We do not currently anticipate that we will derive any revenues from either product sales or from governmental research grants during the next twelve months. Although we have applied for an additional SBIR research grant, no assurance can be given that the grant application will be approved. Even if the grant is approved, it is unlikely that we would receive any grant funds by the end of 2004.

Based on our current plan of operations, we believe that our current cash balances will be sufficient to fund our foreseeable expenses for at least the next twelve months. However, the estimated cost of completing the development of our products and of obtaining all required regulatory approvals to market our products is substantially greater than the amount of funds we currently have available and substantially greater than the amount we could possibly receive under any governmental grant program. As a result, we will have to obtain significant additional funds during the next 12 months in order to fund our operations after that period. We currently expect to attempt to obtain additional financing through the sale of additional equity and possibly through strategic alliances with larger pharmaceutical or biomedical companies. We cannot be sure that we will be able to obtain additional funding from either of these sources, or that the terms under which we obtain such funding will be beneficial to this company.

The following is a summary of our contractual cash obligations at March 31, 2004 for the balance of this fiscal year and for the following fiscal years:

<b>Contractual Obligations</b>	<b>Total</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007 and hereafter</b>
Long-Term Office Leases (1)	\$428,000	\$137,000	\$137,000	\$77,000	\$77,000

(1) Assumes that the current lease at Cedars-Sinai Medical Center will be renewed in June 2004 for a three-year period on substantially the same terms as currently in effect.

We do not believe that inflation has had a material impact on our business or operations.

We are not a party to any off-balance sheet arrangements, and we do not engage in trading activities involving non-exchange traded contracts. In addition, we have no financial guarantees, debt or lease agreements or other arrangements that could trigger a requirement for an early payment or that could change the value of our assets

## **BUSINESS**

We conduct all of our operations through our wholly owned subsidiary, Arbios Technologies, Inc. (ATI). We currently have two products in development; a novel blood purification therapy called selective plasma filtration therapy (SEPET) and an extracorporeal, bioartificial liver (BAL) that incorporates porcine hepatocytes (pig liver cells).

### **Product Overview**

We currently own the rights to two BAL systems. The system that we have been developing is known as LIVERAID. This system was developed by this company's founders, Drs. A. A. Demetriou and J. Rozga. In April 2004, we acquired from Circe Biomedical, Inc., and unaffiliated biomedical company, the rights to another BAL, known as the HepatAssist system. Certain technologies included in the HepatAssist BAL were designed and tested in pre-clinical and clinical studies by Drs. A. A. Demetriou and J. Rozga. Both of our BAL systems are based on substantially similar underlying medical technologies, and both utilize a single-use cartridge that contains pig liver cells and certain sorbents. When a patient's blood is pumped through either the BAL cartridges, substances normally metabolized by the liver and accumulated in the blood during liver failure move across the porous tubes into two compartments, one of which is filled with pig liver cells and the other that incorporates chemical particles (sorbents) capable of removing toxins that cause liver failure. At the same time, substances produced by pig liver cells move across the porous wall into the plasma compartment. As a result of these two processes (provision of whole liver functions by the pig liver cells and removal of toxins by the sorbents), we believe the levels of pathological and normal blood components will move toward normal ranges.

LIVERAID is based on a cartridge that contains our proprietary designed porous tubes. In addition, the LIVERAID cartridge contains approximately 50% more pig cells than the cartridge that was originally used in the HepatAssist system. We anticipate that LIVERAID will be used in conjunction with a perfusion platform that has been customized to operate with this system.

Our BAL 2004 system effectively is the HepatAssist system that has been enhanced by using more pig cells. In addition, we do not expect that the BAL 2004 will use the proprietary perfusion platform that was designed and developed for the HepatAssist system.

SEPET is a single-use cartridge that contains specially designed porous tubes. When a patient's blood is pumped through these tubes, substances normally metabolized by the liver and accumulated in the blood during liver failure move across the porous wall and are discarded. As a result of this blood purification (detoxification) process, we believe that the levels of pathological blood components will move toward normal ranges.

SEPET , LIVERAID and BAL 2004 all rely on single-use cartridges that are placed on a blood perfusion apparatus that is attached to the patient's blood circulation system. For SEPET the blood perfusion apparatus is a standard kidney dialysis machine. At the end of the treatments with any of our products, the disposable cartridges are discarded, and new cartridges are used for the next therapy.

### **Background of our company**

Arbios Technologies, Inc., our operating subsidiary, was formed in August of 2000 by Drs. A. A. Demetriou and J. Rozga, two leaders in the field of artificial liver therapy, to develop extracorporeal devices for the treatment of liver failure. As employees of Cedars-Sinai Medical Center, Drs. A. A. Demetriou and J. Rozga previously were involved in the development of a first generation bioartificial liver (known as HepatAssist) that was licensed by Cedars-Sinai Medical Center in 1994 to W.R. Grace & Co. and then subsequently transferred to other entities, including Circe Biomedical, Inc. The prior owners of this technology, including in particular W.R. Grace & Co. and Circe Biomedical, Inc., spent many millions of dollars on the research and development of the original HepatAssist system, the perfusion platform and on the related technologies and operating procedures necessary to bring the product to market. The original HepatAssist system was tested in Phase II/III clinical trials approved by the FDA in patients with fulminant/subfulminant liver failure and primary non-function following liver transplantation. These trials of the original HepatAssist system were the first large (171 patients) prospective, randomized, controlled multi-center trial demonstrating a survival advantage for an extracorporeal liver assist system utilizing pig liver cells. Although treated fulminant/subfulminant hepatic failure patients with viral and drug-induced liver injury had improved survival compared to controls when adjusted for the effect of confounding factors (such as liver transplantation), the primary clinical end point in the overall study population (survival at 30 days post-transplantation) was not achieved. Accordingly, the HepatAssist system was not approved for marketing, and the FDA requested that a new Phase III clinical study be performed. A new Phase III protocol was prepared and approved by the FDA. However, before these new studies could be undertaken, in 2003 Circe Biomedical, Inc. ceased its operations. In April 2004, we purchased most of the remaining assets of Circe Biomedical, Inc. that related to its bioartificial liver operations, including rights to original HepatAssist system, the new Phase III protocol that was approved by the FDA, and over 400 manufacturing and QA/QC standard operation protocols previously reviewed by the FDA.

To date, we have been funded the research and development of our two products through funds derived from the sale of approximately \$5,485,000 of its equity securities and \$304,000 of Small Business Innovation Research (SBIR) grants that have been awarded by the United States Small Business Administration. We have applied for additional SBIR grants to fund a portion of our research expenditures, which applications are still pending. However, whether or not we receive additional SBIR grants, we will have to raise substantial additional proceeds to fund our future clinical development expenses and our on-going working capital needs.

Our research offices and laboratories are located at Cedars-Sinai Medical Center, Los Angeles, California. Under our lease agreement and other arrangements with Cedars-Sinai, we have access to all of the key development resources of that leading medical center (e.g., animal facility, surgical core facility, clinical laboratory and others). Cedars-Sinai Medical Center will be considered as the primary clinical testing site.

We have also entered into various agreements with Spectrum Laboratories, Inc. ( Spectrum Labs ), including research and development agreements and manufacturing agreements. Spectrum is expected to be the manufacturer of the cartridges to be used in both liver assist devices. Spectrum Labs is a company that specializes in the development and manufacture of innovative molecular separation products for the research community and is a leading supplier of dialysis and ultrafiltration membranes used for biomedical research, molecular biology and clinical diagnostics throughout the world.

## Strategy

We have established collaborations with Cedars-Sinai Medical Center and Spectrum Labs. These collaborations are expected to facilitate the development of SEPET and our BAL systems and could potentially accelerate the clinical testing, regulatory approval and commercialization of those products in the United States and other markets.

We believe that the testing and regulatory requirements for SEPET will be shorter than for either of our BAL systems. Accordingly because of the shorter regulatory period and the ability of SEPET to operate through the use of a standard, currently available kidney dialysis unit, we expect to complete the development of SEPET before the development of either LIVERAID or BAL 2004 is completed. However, we will need to raise significant additional capital to be able to generate the research, clinical and manufacturing data necessary to support applications of our products to the FDA and regulatory agencies in other countries. We recently engaged a regulatory consultant and an FDA attorney to counsel us with respect to the availability of a FDA Section 510 (k) Pre-Market Notification for SEPET. These advisors have advised us that a notification filing under Section 510 (k) appears to be available. Accordingly, we currently plan to pursue a 510(k) Notification. In connection with the 510(k) Notification, we will have to, among other requirements, establish that SEPET is substantially equivalent to at least one other legally-marketed product that has been cleared for marketing by the FDA via a 510(k) submission. We believe that we have identified products that we can demonstrate are substantially equivalent to SEPET. We are in the process of compiling information to submit to the FDA prior to our commencement of a small clinical trial for SEPET. No assurance can be given that we will, in fact, submit a Section 510 (k) Pre-Market Notification for SEPET or that the FDA will agree with us that this notification filing is available to us.

We have already performed *in vitro* and *in vivo* testing of the SEPET and LIVERAID prototype devices and currently plan to commence clinical testing of SEPET during 2004. If we proceed with a Section 510 (k) Pre-Market Notification for SEPET, we expect to submit that notification in 2005. Alternatively, if we do not pursue a 510(k) Notification, based on our current estimates, we anticipate that we will be able to file an application requesting market approval of the SEPET in 2007. We are currently evaluating the possibility of conducting clinical studies of the BAL 2004 system under a modified version of the FDA- approved Phase III IND protocol that we recently acquired. Since we are still currently developing our clinical and regulatory strategies for our two BAL systems, we cannot estimate when an application requesting marketing approval of either systems will be filed with the FDA.

The April 2004 acquisition of the assets of Circe Biomedical has potentially provided us with new opportunities for the development of a BAL. The Circe BAL device that we acquired consists of four distinct components: (1) FDA approved standard operating procedures ( SOPs ) for production of porcine cells including growing, harvesting, freezing, and thawing of the cells (we expect that the cells used in our BAL systems will be derived from the same herd of pigs previously used by Circe in its Phase III trial of HepatAssist.); (2) the cartridge used in the Phase III trial of HepatAssist; (3) an FDA approved Phase III protocol; and (4) the perfusion apparatus, or platform, used in the Phase III trial of HepatAssist. We believe that the perfusion apparatus that we intend to use with LIVERAID is more efficient and easier to use than the perfusion platform previously used for original HepatAssist. Therefore, we do not expect to use the HepatAssist perfusion platform for either our LIVERAID or BAL 2004 systems.



## Liver Function Background

The liver controls, or affects, almost every aspect of metabolism and most physiologic regulatory processes, including protein synthesis, sugar and fat metabolism, blood clotting, the immune system, detoxification (alcohol, chemical toxins, drugs) and waste removal. Loss of liver function is a devastating and life threatening condition. Liver failure affects all age groups and may be due to many causes, including viral infection (hepatitis), ingestion of common medications, alcohol, and surgical liver removal for trauma and cancer.

Currently, there is no direct treatment for liver failure, except for a successful liver transplant. There is, however, a current scarcity of donor livers, and approximately two thousand patients on the waiting list for donor livers die annually before receiving liver transplants. Treatments with currently available technologies (e.g., blood purification methods) are, at best, short-term measures, and none of them has achieved wide clinical use or ability to arrest or reverse liver failure and improve survival. As a consequence, liver failure patients must still either undergo liver transplantation or endure prolonged hospitalization with low probability of survival. In addition, many patients do not qualify for transplantation. Still others do not recover after transplantation because of irreversible brain damage caused by liver failure. Although the liver has a remarkable capacity for regeneration, the repair process after massive liver damage is markedly impaired.

There is a need to develop artificial means of liver replacement and/or assistance with the aim of either supporting patients with borderline functional liver cell mass until their liver regenerates or until a donor liver becomes available for transplantation. Such an artificial liver should also support patients during recovery after transplantation with marginal livers and after extended liver resections for trauma or cancer. To achieve these effects, an effective liver support system should be able to lower blood levels of substances toxic to the brain and liver and to provide whole liver functions, which are impaired or lost.

It is generally believed that liver support at this level of complexity requires utilization of viable isolated liver cells (hepatocytes). The founders of this company as well as investigators not associated with this company have demonstrated *in vitro* and in animal models of liver failure that cell-based bioartificial livers can provide whole liver functions. However, only a few bioartificial livers were tested in humans and it remains to be seen whether systems utilizing hepatocytes as the only means of liver support are effective. We believe that in order to provide the maximum support for the failing liver, porcine hepatocyte therapy should be combined with blood detoxification.

Each of our BAL systems (LIVERAID and BAL 2004) was designed to become an advanced, relatively inexpensive, effective application of the basic bioartificial liver concept. In these BAL systems, liver cell therapy (porcine hepatocytes) is combined with blood detoxification (selective plasma filtration or sorbent based plasma therapy). Depending on the cause of liver disease, severity of illness and deficiency of specific liver functions, these BAL modes of therapy can be provided individually, simultaneously or sequentially. Because of these features, we believe our BAL technology is well suited to treat patients with liver failure of all etiologies and severity, including those requiring maximum liver support. While the original HepatAssist Phase II/III clinical trial demonstrated an increase in patient survival in patients with viral and drug-induced fulminant/subfulminant hepatic failure, a new Phase III clinical trial will be needed before our BAL 2004 system (which is an enhanced version of the original HepatAssist system) can be used by human patients. Pre-clinical data for our LIVERAID system has indicated that this novel BAL system can improve hemodynamic status, clearance of ammonia and ICG (a liver function test) and prolonged survival time of pigs with terminal liver failure. However, the efficacy of the LIVERAID system still needs to be demonstrated in FDA-approved clinical trials before it can be used by human patients.

In liver failure patients, the clearing of blood of neuro- and hepatotoxins is highly desirable and there is a need for an effective blood purification therapy. SEPET (selective plasma filtration) is a novel form of such therapy. During selective plasma filtration therapy, the plasma fraction containing substances that are toxic to the brain, the liver and other internal organs and tissues would be removed from patient blood and replaced with normal human plasma.

### **The Products We Are Developing**

We currently are developing two novel treatments for acute and chronic liver failure. We believe that both our SEPET and either of our BAL systems may:

- 1 Help keep liver failure patients alive and neurologically intact before, during and immediately after transplantation.
- 1 Allow, in selected cases, survival without a transplant (a bridge to liver regeneration).
- 1 Support patients during periods of functional recovery and regeneration after extensive removal due to liver trauma and/or cancer.
- 1 Accelerate recovery from acute exacerbation of chronic liver disease.
- 1 Shorten length of stay in intensive care units.
- 1 Shorten hospital stay.
- 1 Reduce the cost of care
- 1 Reduce intractable itching associated with severe jaundice.

We believe that SEPET and our BAL systems can achieve these effects because it can lower blood levels of substances that are toxic to both the brain and liver. However, proof of feasibility is lacking at this time, and the clinical utility of this product still needs to be demonstrated in patients with acute liver failure.

### **SEPET™**

We are developing SEPET (selective plasma filtration therapy) as a blood purification measure to provide temporary liver support during acute liver failure and acute exacerbation of chronic liver disease. Selective plasma filtration therapy will be provided through our single-use, disposable cartridge that contains a bundle of hollow fibers made of polysulfone or a similar bio- and hemo-compatible material and being capable of sieving substances with molecular weight of up to 100 kDa. At present, Spectrum Labs is the manufacturer of these disposable cartridges. See Business Manufacturing, below. The SEPET system is designed for use with any commercially available kidney dialysis unit and/or plasma apheresis system utilizing hollow-fiber cartridges. Accordingly, no apparatus needs to be developed or manufactured for SEPET. Accessory components for the SEPET system (e.g., tubings, connectors, pressure gauges, etc.), will consist of standard components that are currently used in renal dialysis. We expect that these accessory components will be manufactured for us by third-party vendors.

During therapy, an ultrafiltrate containing toxins with molecular weight of 100 kDa or less will be recovered from the side port of the cartridge, while at the same time, commercially available (e.g., blood bank) fresh frozen plasma and/or its synthetic substitute will be administered to the patient.

We believe that as a result of these two processes, the levels of pathological and normal blood components present in the patient's circulation will move toward normal ranges, thereby facilitating recovery from liver failure. Based on published medical literature, rapid and efficient blood detoxification is expected to protect the liver, brain and other organs against further injury, accelerate healing of the native liver and improve its residual functions.

#### **LIVERAID And BAL 2004 Bioartificial Liver Systems**

We have designed and are attempting to demonstrate that our LIVERAID product can provide temporary liver support during acute liver failure and acute exacerbation of chronic liver disease. The LIVERAID utilizes a proprietary multi-compartment hollow fiber module incorporating viable pig liver cells and a blood detoxification circuit. The module is attached to a base instrument which facilitates perfusion of the LIVERAID with a patient's plasma. The hollow fibers are made of a polyethersulfone membrane or a similar material based on our proprietary fiber-within-a-fiber geometry. This geometry allows for the integration of two different functions within a single module. Depending on the etiology of liver disease, severity of illness and deficiency of specific liver functions, LIVERAID is designed to offer liver cell therapy, blood detoxification or a combination thereof. During treatment, individual modes of therapy may be added or removed. The other components of LIVERAID, including blood purification columns (charcoal), oxygenator, filters and tubing kit are available from third party vendors.

At present, most bioartificial liver systems (including the original HepatAssist system) are perfused with plasma rather than blood. Both the LIVERAID and BAL 2004 systems are designed to be perfused with a patient's plasma to prevent leakage of porcine cells and cell debris into patient blood circulation. The platform for our BAL systems will utilize a commercially available oxygenator and a disposable tubing kit.

The BAL 2004 system also incorporates several proprietary components and technologies into an integrated liver assist system, including a bioartificial liver cartridge with porcine hepatocytes and a plasma re-circulation circuit. However, since the BAL 2004 is based on the HepatAssist system, its cartridge does not contain our proprietary fiber-within-a-fiber geometry.

A critical aspect of both the LIVERAID and BAL 2004 technology include the source and method of procurement of liver cells, the cryopreservation (freezing) of the liver cells, the storage of the liver cells, the proprietary plasma re-circulation loop incorporating the cell cartridge and sorbents, and the standard operating procedure protocols and quality control and programs related to the foregoing. We currently own or have licensed numerous proprietary technologies and methods for sourcing and using hepatocytes, which technologies and methods apply to both our LIVERAID and BAL 2004 systems. The following addresses our current plans and procedures regarding viable liver cells (hepatocytes).

**Hepatocyte donors.** Ideally, human hepatocytes should be used in a bioartificial liver. However, there is a shortage of organ donors and published data demonstrated that pig liver cells outperform animal and human liver cell lines, including those derived from liver cancers. In addition, use of human cancer-derived cells raises safety concerns. At this time, we intend to utilize normal pig liver cells.

**Hepatocyte harvest.** The founders of our ATI subsidiary and Circe Biomedical, Inc. developed certain semi-automated methods for large-scale harvest of pig hepatocytes. The methods of harvesting and collecting liver cells are covered by four patents, which patents we either have acquired from Circe and now own or have licensed from Cedars-Sinai Medical Center.

**Hepatocyte storage.** Hepatocyte storage, quality control and shipment of cells to treatment sites are best achieved by use of cell freezing (i.e., cryopreservation). Cryopreservation also provides greater protection from bacterial and viral contamination because frozen cells can be stored until microbiologic testing is completed and cells are then released for clinical use. Prior to use, cells are rapidly thawed and their viability is tested. The patented hepatocyte cryopreservation technology is now owned by us and by Cedars-Sinai Medical Center, who has licensed this technology to us.

The pig liver cells will be harvested from young purpose-bred, pathogen-free, vaccinated pigs raised in an United States Department of Agriculture ( USDA ) certified facility specifically for biomedical research purposes. Each batch of cryopreserved pig liver cells will be released for clinical use only after proper verification of biosafety and viability/functionality of the cells. We acquired all of the required laboratory and quality assurance protocols from Circe Biomedical, which protocols were previously reviewed by the FDA and deemed to be in compliance with FDA requirements.

LIVERAID is designed to be used in the same manner as any other plasma therapy device. In a typical clinical procedure, the operator will install a LIVERAID module and tubing set containing sorbent detoxification columns into the blood/plasma perfusion platform. Approximately 15 billion viable pig hepatocytes will be seeded into the extra-fiber space through the module side ports. At the start of treatment, the platform will be attached to the patient and the module will be perfused with the patient's oxygenated plasma. At the same time, fresh frozen plasma will be recirculated through the sorbent columns in the diafiltration circuit. At the end of treatment, the disposables will be discarded as biohazardous waste.

We expect to demonstrate that during LIVERAID or BAL 2004 therapy, substances normally metabolized by the liver and accumulated in the blood during liver failure will diffuse freely across the porous membrane into the compartment containing pig liver cells. At the same time, products of pig liver cell metabolism will diffuse back into the plasma compartment and then into the blood circuit. It is anticipated that as a result of these two processes, the levels of pathological and normal blood components present in the patient's circulation will move toward normal ranges, thereby facilitating recovery from liver failure. Additional therapeutic benefits may be provided by blood purification (detoxification) therapy. In this mode of therapy, small and large protein-bound toxins, which accumulate in the blood during liver failure are expected to be removed by sorbents. Blood detoxification is believed to protect the liver, brain and other organs against further injury, accelerate healing of the native liver and improve its residual functions. Decreased blood toxicity is also expected to prolong the life and metabolic activity of pig hepatocytes in the BAL modules.

#### **Product Advantages**

We believe that SEPET as a blood purification therapy will be more effective than sorbent-based devices (e.g., charcoal, resin, silica, etc.) and whole plasma exchange therapy. SEPET can be used with currently available hospital kidney dialysis systems to provide selective plasma filtration therapy, which may offer the following advantages:

- 1 Ease of use. The systems bring user friendliness (e.g., pump integration, automation and an intuitive user interface) to traditionally complex liver support procedures.
- 1 Simplicity. Kidney dialysis systems are routinely used and, therefore, there may be no need for extensive personnel training for use of these similar systems in the SEPET .
- 1 Low cost. The cost of therapy is expected to be lower than with any other liver assist device that is currently under development.
- 1 No Intensive Care Unit needed to provide treatment. With further developments, SEPET may become available for treatment of patients outside of intensive care unit settings.

To our knowledge, LIVERAID and BAL 2004 are the only liver assist devices under development that are capable of providing both liver cell functions and blood purification either simultaneously or sequentially in a versatile and customized manner depending on the cause and severity of liver failure.

Drs. Demetriou and Rozga, the founders of ATI and the principal stockholders of this company, have previously demonstrated that cryopreserved pig hepatocytes remain alive (>80% viability) after thawing. Moreover, they quickly aggregate, forming liver-like 3-D units, and resume basic functions (e.g., drug metabolism) at levels comparable to those seen in intact livers. Drs. Demetriou and Rozga have also reported that treatment of animals and patients with fulminant hepatic failure with a bioartificial liver loaded with freshly thawed pig hepatocytes prolonged life, alleviated intracranial hypertension and improved blood chemistry. In addition, in experimental animals bioartificial liver therapy improved native liver function and triggered mechanisms regulating liver regeneration. In addition, treatment with either of our two BAL systems can be commenced with 2-3 hours of patient preparation, thereby making BAL therapy available on demand. In contrast, other liver assist devices under development require longer time for preparation prior to patient treatment (up to several days in some instances).

### **Clinical Utility**

The clinical performance of the SEPET and LIVERAID has not been assessed yet. However, *in vivo* large animal studies have provided proofs of feasibility and clinical efficacy for LIVERAID. Additionally, virtually all basic aspects of these new technologies (effect of blood purification, liver cell function, utility of hollow-fiber membranes, performance of a design incorporating both pig liver cells and sorbent) have been validated in the past by Drs. Demetriou and Rozga, the founders of ATI, and other investigators. Furthermore, the animal and clinical data generated and published to date on the first-generation bioartificial liver, indicate that the basic concept of a bioartificial liver utilizing cryopreserved pig liver cells and blood detoxification, is valid and that repeated 6-hour bioartificial liver treatments are safe and yield measurable therapeutic benefits. Accordingly, we believe that our novel, next-generation products will represent improvements and/or enhancements of earlier technologies.

Our BAL 2004 system is an enhanced version of the original HepatAssist system. The safety and efficacy of the original HepatAssist were evaluated in a prospective, randomized, controlled, multi-center FDA-approved clinical trial. A total of 171 patients, 86 in the control group, and 85 BAL group, were enrolled. Patients with fulminant/subfulminant hepatic failure and primary non-function following liver transplantation were included. Data were analyzed with and without accounting for the following confounding factors: liver transplantation, time to transplant, disease etiology, disease severity, and treatment site. For the entire patient population, survival at 30 days was 71% for BAL vs. 62% for Control. When survival was analyzed accounting for confounding factors (e.g., liver transplantation, survival prior to transplantation), in the entire patient population, there was no difference between the two groups. However, survival in 147 fulminant/subfulminant hepatic failure patients was significantly higher in the BAL compared to the Control group. Thus, this was the first prospective, randomized, controlled trial of an extracorporeal liver support system that demonstrated safety and improved survival in patients with fulminant/subfulminant hepatic failure.

## Market Opportunity

There is an urgent need for artificial means of liver replacement and/or assistance to facilitate recovery from liver failure without a transplant. An effective liver assist device could also help maintain liver failure patients alive until an organ becomes available for transplantation. The SEPET and LIVERAID /BAL 2004 systems are designed to treat patients with liver failure of all etiologies and severity, including acute exacerbation of chronic liver disease.

The patient and market opportunity is substantial and underserved. According to the American Liver Foundation, NCHS and data published in medical literature, it is estimated that five million Americans have viral hepatitis and each year as many as 700,000 patients in the United States are diagnosed with liver disease.

According to NCHS, approximately 250,000 patients are hospitalized annually in the U.S. due to liver failure. Of those, nearly 50,000 (20%) died (7th leading cause of death) because no donor liver was found or because they had contraindications to transplantation. The remaining 200,000 patients were discharged from the hospital because they either received a liver transplant or their condition improved after receiving standard of care. However, half of the released patients were hospitalized again in the same year due to another episode of liver failure requiring full medical support. At the same time, 2,000 patients with fulminant hepatic failure were added to the list for urgent transplantation. As of April 2002, the United Network for Organ Sharing national patient waiting list for liver transplants was 17,641 names long; at least a third of those have end-stage hepatitis C, and within the year almost 2,000 will die waiting for a transplant. Because of the hepatitis C epidemic, the transplant waiting list is expected to increase 500% by 2008.

Based on these data and NCHS projections, we estimate that more than 200,000 extracorporeal liver support treatments may be needed annually in the United States alone to help keep liver failure patients alive until either an organ becomes available for transplantation or the native liver recovers from injury. We believe that SEPET and our BAL systems may address this demand and, based on published data, estimate that there were approximately 250,000 patients hospitalized in the United States in 2001 who had indications for selective plasma filtration and/or BAL therapy.

At present no direct treatment for liver failure is available and such patients must receive a liver transplant or endure prolonged hospitalization with significant mortality. Moreover, no prognostic test is available that would help predict which liver failure patient is likely to survive on medical therapy alone. Due to the critical nature of liver failure and the resulting adverse effects on other organs, the hospitalization costs can be as high as \$20,000 per day. In fact, it is estimated that the in-patient cost of liver failure treatment can reach \$200,000 per episode without a transplant. While liver transplants have significantly increased the chances of survival for patients with liver failure, due to a severe shortage of donor livers, less than 10% of liver failure patients received a transplant. Further, many liver failure patients were excluded from the waiting list because of alcohol or drug abuse, cancer, cardiovascular disease or inadequate post-operative support by family or others.

At this time, based on the preliminary information available to us, we estimate that the cost of a single treatment with the SEPET therapy could be within a \$2,000 - \$4,000 range and that cost of the BAL therapy could be approximately \$20,000. We anticipate that SEPET and/or BAL therapy will have to be repeated up to 5-7 times before a satisfactory clinical outcome is obtained. Based on these estimates and the above mentioned projections, the potential U.S. market for SEPET and BAL is significant, with similar opportunities in countries outside the U.S. However, we have not confirmed the potential size of these markets through an independent marketing study.

If we are successful in demonstrating the clinical utility of one or both of our products, liver failure patients treated with our products may be spared liver transplantation and the need for life long immune-suppression. In addition, these patients can be treated outside of the intensive care unit and could be discharged from the hospital after shorter stays, all of which would reduce costs for healthcare providers and generate a demand for the use of these products.

In addition to the U.S., the potential market for our products includes Europe and Asia. In China, liver disease represents a pressing health problem and the need for an effective liver support therapy is more urgent than in most other markets. It has been estimated that there are approximately 200 million carriers of the hepatitis virus B or C in China, and primary liver cancer is a common malignancy. In Japan, demand for alternative liver support/replacement therapies is significant because transplantation of cadaver livers is virtually nonexistent.

### **Sales, Marketing & Distribution**

We currently do not have any agreements in place to market any of our products if and when those products are commercially released, and we do not currently expect to establish an in-house marketing and sales program to distribute our products. We currently expect to outsource the sales, marketing and distribution of our products to third parties who specialize in the sales, marketing and distribution of medical products. Alternatively, we may enter into strategic alliances with larger medical companies or license the rights to our products to such larger companies. We currently expect that our products will be marketed in the U.S., Europe and Asia.

### **Manufacturing**

In December 2001 we entered into a manufacturing and supply agreement with Spectrum Laboratories, Inc. for the future manufacture of our LIVERAID cartridges. Under that agreement, we agreed that Spectrum Labs will manufacture the hollow fiber cartridges with fiber-in-fiber geometry that we will need for the LIVERAID bioartificial liver. The agreement provides that the price of the hollow fiber-in-fiber cartridges to be sold by Spectrum Labs to us will be determined by good faith negotiations between the parties. We have agreed that we will not purchase cartridges with fiber-in-fiber geometry from any other manufacturer unless Spectrum Labs is either unable or unwilling to manufacture the cartridges. We currently do not have a manufacturing arrangement for the cartridges used in the BAL 2004 system. However, the BAL 2004 cartridge is based on a conventional single-bundle hollow-fiber technology and a number of third party manufacturers, including Spectrum Laboratories, Inc. can produce these cartridges.

With respect to cartridges that we expect will be needed for SEPET, we anticipate that such cartridges will be commercially manufactured by either Spectrum Labs or a manufacturer of clinical hemodialyzers. Additional disposable components (tubing kits) may also be manufactured by third party subcontractors.

The kidney dialysis unit that will be used as a platform for SEPET™ therapy is not expected to require any technical adjustments. Since pressure monitors and hemoglobin detectors are standard in kidney dialysis systems, addition of additional safety features may not be required. Blood oxygenator/heat exchangers are available from third party vendors who sell these products.

The platform we currently expect to use for LIVERAID will be an existing instrument manufactured and marketed by an unaffiliated medical device manufacturer. The instrument we expect to use has been certified and approved in Europe for bioartificial liver use. However, in order to use this existing platform for BAL therapy, the instrument must be outfitted with customized software and with hook-ups and components (tubing set) that are specifically designed for use with LIVERAID and BAL 2004.

The pig liver cells will be harvested from young purpose-bred, pathogen-free, vaccinated pigs raised in an USDA certified facility specifically for biomedical research purposes. We have identified a facility that currently breeds pigs that meet the FDA's requirements. The liver cells will be harvested and cryopreserved under aseptic conditions using our proprietary technology as well as commercially available equipment.

As regards cell procurement/cryopreservation for BAL use, we do not yet own our own specialized and certified bio-secure porcine liver cell manufacturing plant. Currently, we expect to subcontract the manufacture of the BAL porcine liver cells needed to conduct clinical trials and during early stages of commercialization from one or more third parties who already manufacture such cells. At the conclusion of Phase II/III clinical testing of the LIVERAID or Phase III clinical testing of BAL 2004 (if we obtain FDA approval to conduct such studies under a modified version of the FDA-approved Phase III IND protocol), we will have to determine whether to build a cell procurement facility to meet the expected requirements for commercial sales, which will require a substantial capital investment, or to continue to purchase such cells from third parties. This decision will be based on technical evaluation of the project as well as an economic evaluation of company performance.

### **Patents and Proprietary Rights**

Bioartificial Liver Rights. Our subsidiary, ATI, has obtained exclusive, worldwide rights from Cedars-Sinai Medical Center and Spectrum Labs to seven issued U.S. patents protecting LIVERAID™ and accompanying cell procurement/cryopreservation technologies. The founders of ATI (Dr. Rozga and Dr. Demetriou) are co-inventors of both the semi-automated methods for large-scale production of isolated pig/human hepatocytes and cryopreservation of isolated pig/human hepatocytes. Our key proprietary LIVERAID™ technologies include the following licensed patents:

- (1) A hollow fiber module with unique fiber-in-fiber geometry (US Patent #5,015,585 Method and Apparatus for Culturing and Diffusively Oxygenating Cells on Isotropic Membranes issued on May 14, 1991). We have licensed this patent from Spectrum Labs.
- (2) A bioartificial liver system in which liver cell therapy and blood detoxification are integrated in a single fiber-in-fiber module (US Patent # 6,582,955 B2 for Bioreactor With Application as Blood Therapy Device issued in June 2003). We have licensed this patent from Spectrum Labs.
- (3) Semi-automated large-scale liver cell procurement technology (US Patent #5,888,409 for Methods for Cell Isolation and Collection issued on March 30, 1999). We licensed this patent from Cedars-Sinai Medical Center.
- (4) Liver cell procurement technology (US Patent #5,968,356 for System for Hepatocyte Cell Isolation and Collection issued on October 19, 1999, and related European Patent #0 830 099 for Apparatus and Method for Cell Isolation and Collection ). We licensed this patent from Cedars-Sinai Medical Center.
- (5) Liver cell cryopreservation technology (US Patent #6,140,123 for Method for Conditioning and Cryopreserving Cells issued on October 31, 2000). We licensed this patent from Cedars-Sinai Medical Center.



(6) A bioartificial liver device with integrated tubes ( Bioreactor and Related Method US Patent #6,242,248 B1 issued on June 5, 2001). We licensed this patent from Cedars-Sinai Medical Center.

(7) A bioartificial liver device ( Bioreactor and Related Method US Patent #6,207,448 B1 issued on March 27, 2001). We licensed this patent from Cedars-Sinai Medical Center.

Cedars-Sinai Medical Center Licenses. On June 19, 2001, ATI entered into an agreement with Cedars-Sinai Medical Center pursuant to which Cedars-Sinai granted to ATI exclusive and worldwide rights to the foregoing five patents and to certain other technical information. These rights are and remain exclusive over the legal life of the various patents and include, subject to limitations, the right to sublicense the patent rights to third parties. In order to maintain its rights under the license, ATI is required to expend an aggregate amount of \$1,760,000 in research and development expenses toward the development and promotion of products derived from the patents. ATI's research and development commitment remains in full force and effect until June 30, 2008. Under the terms of the license, ATI is obligated to meet expenditure milestones per annum through 2008 in order to reach the required \$1,760,000. If ATI expenditures exceed a given year's milestone, however, such excess may be carried over to the following year. To date, we have spent approximately \$1,010,000 towards the fulfillment of this obligation. Additionally, Cedars-Sinai Medical Center will have nonexclusive rights to any products derived from the patents. We will have to pay Cedars-Sinai Medical Center royalty fees equal to 1.5% of the gross sales price of royalty bearing products. From the third to tenth years of the license, the royalty fee percent will phase out evenly to 0%. Cedars-Sinai Medical Center is a major stockholder of this company. See Certain Relationships and Related Transactions.

Spectrum Labs License Agreement. On December 26, 2001, ATI entered into a license agreement with Spectrum Labs, pursuant to which Spectrum Labs granted to ATI an exclusive, worldwide license to develop, make, use and distribute products based on Spectrum Labs' hollow fiber-in-fiber technology, solely for applications in ATI's liver assist devices. The license includes the rights to the two issued patents referred to above. Provided that ATI purchases the hollow fiber cartridges that it expects that it will need for its products from Spectrum Labs, ATI will not have to pay a royalty for the license. In the event that Spectrum Labs is not the manufacturer of the hollow fiber cartridges, ATI will have to pay Spectrum Labs a royalty for the license (see, Business--Manufacturing, above). Unless the Spectrum Labs license agreement is terminated sooner due to a breach of the license, the term of the license will continue until the expiration of the two patents. Spectrum Labs also agreed to grant ATI a right of first refusal to obtain a license to make, use, develop or distribute products based on Spectrum Labs' technology other than in liver assisted products, provided that such other products are in the fields of artificial blood therapy and bioprocessing and therapeutic devices. See Certain Relationships and Related Transactions.

In addition, in April 2004, we acquired from Circe Biomedical, Inc., a portfolio of intellectual properties, including certain U.S. and foreign patents, applicable to (i) the HepatAssist BAL that Circe was developing, including various patents related to the harvesting and handling of cells to be used in the BAL, and (ii) Circe's artificial pancreas system. We do not intend to use or maintain certain of the BAL patents or any of the artificial pancreas patents. The following is a list of the patents and patent applications that we acquired from Circe Biomedical and that we expect to maintain and use with our BAL system:

- (1) Process for preparing isotropic microporous polysulfone membranes.US Patent #4970034.
- (2) Continuous Spinning of Hollow-Fiber Membranes Using Solvent Mixture as Precipitation Medium. US Patent #5151227.

- (3) Method and Apparatus for Casting Hollow Fiber Membranes. US Patent #5298206.
- (4) Apparatus for Bioprocessing a Circulating Fluid. US Patent #5643794.
- (5) Dual Fiber Bioreactor. US Patent #5712154.
- (6) Cryopreserved Hepatocytes and High Viability and Metabolic Activity. US Patent #5795711.
- (7) Closed System for Processing Cells. US Patent #5858642.
- (8) Method of Thawing Cryopreserved Cells. US Patent #5895745.
- (9) High Flow Technique for Harvesting Mammalian Cells. US Patent #5912163.
- (10) Removal of Agent From Cell Suspension. US Patent #6068775
- (11) Method for Cryopreserving Hepatocytes. US Patent #6136525.

Patent Applications

<u>Patent No.</u>	<u>Country</u>	<u>Title of Patent Application</u>
2216203	CA	Method of Thawing Cryopreserved Cells
9-256534	JP	Method of Thawing Cryopreserved Cells
99106212.6-2113	EU	Removal of Agent From Cell Suspension

In addition to the foregoing Circe Biomedical patents, we also acquired other rights to Circe's HepatAssist BAL and related technologies, such as clinical and marketing data and over 400 manufacturing and quality assurance/control standard operation protocols that the FDA had previously reviewed. In addition to being necessary for the HepatAssist system, the manufacturing standard operating procedures for harvesting and cryopreservation of hepatocytes are directly applicable to, and important to the development of our LIVERAID and BAL 2004 systems. The Phase I - III clinical data that we acquired is expected to be useful in the preparation of future FDA submissions, since the data is based on pig liver cells from the same source that we currently intend to use for our BAL systems. We also acquired an FDA Phase III IND for an enhanced version of the Hepat Assist system. We are currently evaluating the possibility of conducting clinical studies of the BAL 2004 system under a modified version of the FDA- approved Phase III IND protocol that we acquired. The various protocols may also offer us an opportunity to expedite an IND submission for our LIVERAID system and to shorten the regulatory timeline for FDA approval of our two BAL systems.

In connection with our acquisition of the foregoing patents, we also assumed Circe Biomedical's obligations to make the following royalty payments:

(a) Pursuant to that certain Royalty Agreement, dated as of January 29, 1999, between Circe Biomedical, Inc. (as a wholly-owned subsidiary of W.R. Grace & Co.) and Circe Acquisition Corp., we assumed the obligation to pay a royalty of 2% of net sales any product that utilizes or incorporates the bioartificial liver patents, technology, inventions, and technical or scientific data that Circe Biomedical acquired from W.R. Grace & Co. Since the assets that we acquired from Circe are expected to be used in either the LIVERAID or the BAL 2004 systems, it is likely that we will have to pay this royalty with respect of sales of those parts of our BAL systems that incorporate the W.R. Grace & Co. technology. Net sales includes revenues received from by us or our licensees and sublicensees from third parties. The obligation to pay royalties on the net sales of certain parts of our BAL systems will continue for at least 10 years after the date on which we have obtained all required regulatory approvals and have received \$100,000 of net sales.

(b) Pursuant to that certain Restated License Agreement dated as of August 1, 1999 between Circe Biomedical, Inc. and Cedars-Sinai Medical Center, we are obligated to make royalty payments equal to 1% of the "net sales" price for that portion of a liver assist system sold by us or any of our sublicensees that comprises or incorporates a cartridge having a combination of porcine hepatocytes with hollow fiber membranes. Since both of our BAL systems will utilize this type of cartridge, we will have to pay this royalty with respect of sales of all cartridges used in either of our BAL systems. Our obligation to pay these royalties will begin with the first commercial sale of a BAL and continue thereafter for ten years.

SEPET™ Rights. Our intellectual property rights to SEPET™ consist of patent application and certain related trade secrets. Our patent application regarding our selective plasma filtration therapy (SEPET ) technology was filed in August 2002.

We have not filed for any copyright or trademark protection to date.

### **Research and Development**

ATI and Spectrum Labs also entered into a four-year research agreement pursuant to which ATI and Spectrum Labs agreed to combine their expertise and their respective technologies to enable ATI to (i) develop liver assist systems, (ii) conduct pre-clinical and Phase I-III clinical testing, (iii) obtain regulatory approvals and (iv) commercialize such liver assist systems. Under the terms of the agreement, Spectrum Labs agreed to perform certain research on liver assist devices for ATI during product development, pre-clinical and clinical testing at no cost to ATI. Spectrum Labs also agreed to pay for all costs and expenses in connection with the research program and agreed to allocate a total of \$550,000 to the program during the research term. ATI and Spectrum Labs have recently agreed that Spectrum Labs has now satisfied its obligations to develop and manufacture clinical-grade, second-generation liver assist devices and that we will pay Spectrum Labs an additional \$54,960 over an 18-month period. Spectrum Labs has agreed to perform additional research and development work as may we may request, which additional future work will be provided by Spectrum Labs on terms that we may in the future agree to.

### **Competition**

Our products will compete with numerous other products and technologies that are currently used or are being developed by companies, academic medical centers and research institutions. These competitors consist of both large established companies as well as small, single product development stage companies. We expect substantial competition from these companies as they develop different and/or novel approaches to the treatment of liver disease. Some of these approaches may directly compete with the products that we are currently developing.

Other therapies currently available include whole plasma exchange therapy, a procedure involving massive plasma transfusions that is being used primarily for correction of coagulopathy in patients with severe acute liver failure. In addition, two extracorporeal blood detoxification systems are currently available in the U.S. for treatment of liver failure: (1) the Adsorba column (Gambro, Hechingen, Germany) which contains activated charcoal and (2) the BioLogic-DT system (HaemoCleanse, West Lafayette, Indiana) utilizing a mixture of charcoal, silica and exchange resins. Another therapy, known as MARS (molecular adsorbents recirculating system), combines the specific removal of the toxins of liver failure (albumin bound toxins) using a hollow-fiber cartridge impregnated with albumin, which is also added to the dialysate solution. In Europe and Asia, initial results using MARS in patients with acute exacerbation of chronic liver disease were encouraging. A similar sorbent-based diafiltration system (Prometheus) from Fresenius (Germany) is currently in early clinical trials in Europe. Excorp Medical, Inc., a U.S. company, is developing a freestanding blood perfusion system including pumps, a heat exchanger, an oxygenator, pressure gauges, safety features and computer-assisted monitoring. Algenix, Inc. has a device (LIVE-Rx 2000) that utilizes pig liver cells and a commercially available dialysis cartridge. The technology of VitaGen, Inc. (formerly Hepatix) utilizes a cell line derived from human liver cancer tissue and a conventional hollow fiber bioreactor. RanD S.r.l., an Italian company, has developed a radial-flow bioreactor for liver cell culture and an integrated pumping apparatus in which the patient's plasma is recirculated through the bioreactor loaded with 200 gm of freshly isolated pig hepatocytes. The bioartificial liver system has been successfully used in some patients with fulminant hepatic failure. Hep-Art Co., a Dutch company, also is clinically testing a bioartificial liver that uses pig hepatocytes.

Several other technologies could potentially compete with a bioartificial liver. These include xenotransplantation (use of pig organs in humans), transplantation of isolated hepatocytes and *ex vivo* whole liver perfusions.

### **Government Regulation**

In order to clinically test, manufacture, and market products for therapeutic use, we will have to satisfy mandatory procedures and safety and effectiveness standards established by various regulatory bodies. In the United States, the Public Health Service Act and the Federal Food, Drug, and Cosmetic Act, as amended, and the regulations promulgated thereunder, and other federal and state statutes and regulations govern, among other things, the testing, manufacture, labeling, storage, record keeping, approval, advertising, and promotion of our products. Product development and approval within this regulatory framework takes a number of years and involves the expenditure of substantial resources. After laboratory analysis and preclinical testing in animals, an investigational new drug application is filed with the FDA to begin human testing. Typically, a three-phase clinical testing program is then undertaken. In phase 1, small clinical trials are conducted to determine the safety of the product. In phase 2, clinical trials are conducted to assess safety and gain preliminary evidence of the efficacy of the product. In phase 3, clinical trials are conducted to provide sufficient data for the statistically valid proof of safety and efficacy. The time and expense required to perform this clinical testing can vary and is substantial. No action can be taken to market any new drug or biologic product in the United States until an appropriate marketing application has been approved by the FDA. Even after initial FDA approval has been obtained, further clinical trials may be required to provide additional data on safety and effectiveness and are required to gain clearance for the use of a product as a treatment for indications other than those initially approved. In addition, side effects or adverse events that are reported during clinical trials can delay, impede, or prevent marketing approval. Similarly, adverse events that are reported after marketing approval can result in additional limitations being placed on the product's use and, potentially, withdrawal of the product from the market. Any adverse event, either before or after marketing approval, can result in product liability claims against us.

In addition to regulating and auditing clinical trials, the FDA regulates and inspects equipment, facilities, and processes used in the manufacturing and testing of such products prior to providing approval to market a product. If after receiving clearance from the FDA, a material change is made in manufacturing equipment, location, or process, additional regulatory review may be required. We will also have to adhere to current Good Manufacturing Practice and product-specific regulations enforced by the FDA through its facilities inspection program. The FDA also conducts regular, periodic visits to re-inspect equipment, facilities, laboratories, and processes following the initial approval. If, as a result of these inspections, the FDA determines that any equipment, facilities, laboratories, or processes do not comply with applicable FDA regulations and conditions of product approval, the FDA may seek civil, criminal, or administrative sanctions and/or remedies against us, including the suspension of the manufacturing operations.

The FDA has separate review procedures for medical devices before such products may be commercially marketed in the United States. There are two basic review procedures for medical devices in the United States. Certain products may qualify for a Section 510(k) procedure, under which the manufacturer gives the FDA a Pre-Market Notification, or 510(k) Notification, of the manufacturer's intention to commence marketing of the product at least 90 days before the product will be introduced for clinical use. The manufacturer must obtain written clearance from the FDA before it can commence marketing the product. Among other requirements, the manufacturer must establish in the 510(k) Notification that the product to be marketed is "substantially equivalent" to another legally-marketed, previously existing product. If a device does not qualify for the 510(k) Notification procedure, the manufacturer must file a Pre-Market Approval Application. The Pre-Market Approval Application requires more extensive pre-filing testing than the 510(k) Notification procedure and involves a significantly longer FDA review process. We recently engaged a regulatory consultant and an attorney to counsel us with respect to the availability of the 510 (k) Notification procedure for SEPET . Based on the advice of our consultants we plan to prepare and submit a notification filing under Section 510 (k) this year. We are in the process of compiling information to submit to the FDA prior to our commencement of a small clinical trial for SEPET . No assurance can be given that we will, in fact, submit a 510 (k) Notification for SEPET or that the FDA will agree with us that this notification filing is available to us

We expect SEPET to be classified by the FDA as a Class III medical device. Accordingly, unless Section 510(k) is available, SEPET will be subject to a two-step approval process starting with a submission of an investigational new drug exemption application to conduct human studies, and followed by the Product and Establishment Licensing applications, including Product Marketing Approval.

We expect LIVERAID to be classified by the FDA as a biological therapeutic and Class III medical device. Accordingly, it will be subject to a two-step approval process starting with a submission of an investigational new drug application to conduct human studies followed by the submission of a Product Marketing Approval and a new drug application. The latter, if and when accepted, allows the commercialization of the product.

#### **Employees**

We currently employ five full-time employees, one part-time employee, one full-time consultant, and three independent contractors who provide services to us on a part-time basis. Of the foregoing employees and contractors, six are primarily engaged in administration/management, and remaining four persons are involved in scientific research, product development and/or regulatory compliance matters. In addition, certain members of our Board of Directors provide us with research and development assistance on a part-time, limited basis. Our employees are not represented by a labor organization or covered by a collective bargaining agreement. We have not experienced work stoppages and we believe that our relationship with our employees is good.

#### **Property**

We currently maintain our laboratory and office space at Cedars-Sinai Medical Center in Los Angeles, California, which facilities we lease under a three-year lease that expires on June 30, 2004. We currently pay rent of \$6,441 per month for the 1,008 square foot facility under the lease. Cedars-Sinai Medical Center is a stockholder of our company and was one of the initial stockholders of ATI. See Certain Relationships and Related Transactions.

Since April 1, 2004, we have been leasing 1,700 square feet of additional administrative office space in a building across the street from our laboratories that are located at Cedars-Sinai Medical Center. Our new offices are located at 8797 Beverly Blvd., Los Angeles, California 90048 and are our new executive offices. The new office lease requires us to pay rent of \$5,000 per month and has a term of two years.

**Legal Proceeding**

We are not a party to any material legal proceedings.

We may occasionally become subject to legal proceedings and claims that arise in the ordinary course of our business. It is impossible for us to predict with any certainty the outcome of pending disputes, and we cannot predict whether any liability arising from pending claims and litigation will be material in relation to our consolidated financial position or results of operations.

**DIRECTORS, EXECUTIVE OFFICERS, PROMOTERS AND CONTROL PERSONS****Directors and Executive Officers of Arbios Systems, Inc.**

The following table sets forth the name, age and position held by each of our executive officers and directors as of May 1, 2004. Directors are elected for a period of one year and thereafter serve until the next annual meeting at which their successors are duly elected by the stockholders.

<b>Name</b>	<b>Age</b>	<b>Position</b>
Jacek Rozga, M.D., Ph.D.	55	President, Chief Financial Officer, and Director
Kristin P. Demetriou <sup>(1)</sup>	55	Director and Secretary
Roy Eddleman	64	Director
Marvin S. Hausman M.D.	62	Director
John M. Vierling, M.D. <sup>(1)</sup>	58	Chairman of the Board and Director
Richard W. Bank, M.D. <sup>(1)</sup>	70	Director

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(1) Member of our Audit Committee.

**Business Experience and Directorships**

The following describes the backgrounds of current directors and the key members of the management team. All of the our officers and directors also currently hold the same offices with ATI.

**Jacek Rozga, MD, PhD.** Dr. Rozga is a co-founder of ATI, a director of this company, and our current President and Chief Financial Officer. He also currently is this company's Chief Scientific Officer and a professor of Surgery at UCLA School of Medicine. Dr. Rozga has 20 years experience in artificial liver support system development, hepatocyte transplantation and liver tissue engineering, and directed all research aspects leading to the development and testing of the first-generation bioartificial liver at Cedars-Sinai Medical Center. Dr. Rozga has six patents and five patent applications pending, most of which have been licensed by ATI.

**Kristin P. Demetriou.** Former President & CEO of Bergen Line, Inc., New York City (1989-94), NY, an international owner/operator of cruise and cargo ships. Prior to that she was Director, Sales & Marketing worldwide (1982-88) for Royal Viking Line, Inc., San Francisco, CA. Mrs. Demetriou holds a B.A. in Psychology from Columbia University, New York, NY, and completed post-graduate work in accounting, finance, media and investor relations.

**Roy Eddleman.** Mr. Eddleman has been the Chairman of the Board and Chief Executive Officer of Spectrum Laboratories, Inc. since July 1982. Spectrum Laboratories, Inc. is a public company in the business of developing and commercializing proprietary tubular membranes and membrane devices for existing and emerging life sciences applications. Mr. Eddleman also has been the founder and/or principal and Director of each of (i) Spectrum Separations, Inc., now a part of UOP/Hitachi, (ii) ICM, Inc., now a part of Perstorf/Perbio, (iii) Facilichem, Inc., a joint venture with SRI International, (iv) Nuclepore, Inc., now a part of Corning and Whatman, and (v) Inneraction Chemical, Inc., now a part of Merck Darmstadt. He is the founder and a benefactor of the Roy Eddleman Research Museum of Chemistry and the Chemical Heritage Foundation in Philadelphia.

**Marvin S. Hausman, MD.** Dr. Hausman has, since January 1997, been the President and Chief Executive Officer of Axonyx, Inc., a public company engaged in the business of acquiring and developing novel post-discovery central nervous system drug candidates, primarily in areas of memory and cognition. Dr. Hausman has 30 years of drug development and clinical care experience at various pharmaceutical companies, including working in conjunction with Bristol-Meyers International, Mead-Johnson Pharmaceutical Co., and E.R. Squibb. He was a co-founder of Medco Research Inc., a NYSE-traded biopharmaceutical company which was acquired by King Pharmaceuticals, Inc. Dr. Hausman has been the President of Northwest Medical Research Partners, Inc. since 1995 and previously served as a member of the Board of Directors of Regent Assisted Living, Inc. from 1996 through 2001.

**John M. Vierling, MD, FACP.** Director of Hepatology, Medical Director of Multi-Organ Transplantation Program, Cedars-Sinai Medical Center. Professor of Medicine, UCLA School of Medicine. Councilor of the American Association for the Study of Liver Diseases. Former Chairman of the Board of American Liver Foundation. Expert Reviewer and Witness for FDA. Former President of the Southern California Society for Gastroenterology. Member of numerous NIH advisory committees, including NIH Committee for Liver Tissue Procurement and Distribution Program. Member, Scientific Advisory Committee, NIH Alcohol Center Grant, University of Southern California and West Los Angeles VAMC/UCLA and Chairman of the Data Safety Monitoring Board for the NIH, NIDDK ViraHep C multicenter trial. Dr. Vierling's research has focused on the mechanisms of liver injury caused by hepatitis B and C and autoimmune and alloimmune diseases.

**Richard W. Bank, MD.** Dr. Bank has served as President and Managing Director of First-Tier Biotechnology Partners since February 1995. He has also served as President and Secretary of BioVest Health Sciences, Incorporated since its organization in April 1996. From February 1995 through April 1996, Dr. Bank served as President of Biomedical Sciences, Incorporated. Dr. Bank was the Medical Director of USAT Labs from December 1986 until January 1988, the Senior Research Analyst Director/ Biotechnology SBC Warburg Dillon Read 1998-1999, and the Entrepreneur-In-Residence In Life Sciences for Tucker Anthony Sutro for 2000 through 2001. Currently, Dr. Bank is Clinical Professor Emeritus in the Department of Obstetrics and Gynecology at the University of Southern California School of Medicine where he has been on the active faculty for the last 25 years.

There are no family relationships between any of the officers and directors. However, Mrs. Demetriou is the wife of Dr. A. A. Demetriou, one of the two founders of ATI and one of the inventors of certain of the technologies used by this company.

#### **Audit Committee**

In February 2004, our Board of Directors established an Audit Committee. The Board of Directors has instructed the Audit Committee to meet periodically with the company's management and independent accountants to, among other things, review the results of the annual audit and quarterly reviews and discuss the financial statements, recommend to the Board the independent accountants to be retained, and receive and consider the accountants' comments as to controls, adequacy of staff and management performance and procedures in connection with audit and financial controls. The Audit Committee is also authorized to review related party transactions for potential conflicts of interest. The Audit Committee is composed of Dr. Bank, Mrs. Demetriou and Dr. Vierling. Each of these individuals is a non-employee director and is independent as defined under the Nasdaq Stock Market's listing standards. While each of the members of the Audit Committee has significant knowledge of financial matters, none of the Audit Committee members has been designated as an audit committee financial expert as defined under Item 401(h)(2) of Regulation S-K of the Securities Exchange Act of 1934, as amended. The Audit Committee operates under a formal charter that governs its duties and conduct.



**EXECUTIVE COMPENSATION**

The following table sets forth the compensation for services paid to Jacek Rozga, M.D., Ph.D. (the Named Executive Officer ) in all capacities for the three fiscal years ended December 31, 2003. Dr. Rozga has been the chief executive officer of both this company and ATI since the Reorganization in October 2003, and was the chief executive officer ATI before the Reorganization. The information set forth below includes all compensation paid to Dr. Rozga by ATI before the Reorganization by ATI, and all compensation paid to him by both this company and ATI since the Reorganization. No other executive officers of either HAUSA or ATI received an annual salary and bonus that collectively exceeded \$100,000 during any of the fiscal years ended December 31, 2003, December 31, 2002 and December 31, 2001.

**Summary Compensation Table**

Name and Principal Position	Year	Annual Compensation			Long-Term Compensation Awards
		Salary	Bonus	Other Annual Compensation	Securities Underlying Options
Jacek Rozga, M.D., Ph.D Chief Executive Officer, Chief Financial Officer, and Chief Scientific Officer	2003 (1)	\$143,125	\$15,000	--	18,000 <sup>(2)</sup> (2)
	2002	\$85,000	\$5,000	--	18,000
	2001	\$85,000	--	--	--

(1) The compensation set forth for 2003 includes amounts paid to Jacek Rozga, M.D., Ph.D by both ATI and Arbios Systems, Inc.

(2) Represents options granted to Jacek Rozga, M.D., Ph.D by ATI, which options were assumed by this company in the Reorganization.

During the three years prior to the Reorganization, Raymond H. Kuh was the President of HAUSA. During the last three years, HAUSA did not pay Mr. Kuh, or any other executive officer, any salary or bonus, and Mr. Kuh was not granted any options. Accordingly, no information is provided regarding Mr. Kuh or any other former executive officer of HAUSA.

**Stock Option Grants**

The following table contains information concerning grants of stock options during the fiscal year ended December 31, 2003 by us (including ATI) to the Named Executive Officer (HAUSA did not grant any options). In the Reorganization, all of these options were assumed by HAUSA and now represent options to purchase shares of our common stock. We have not granted any stock appreciation rights.

**Option Grants in Fiscal Year Ended December 31, 2003**

Name	Individual Grants			Market Price on Date of Grant	ExpirationDate
	Number of Shares Underlying Options Granted	% of Total Options Granted to Employees In Fiscal Year	Exercise Price		
Jacek Rozga, M.D., Ph.D	18,000	8%	\$1.00	(1)	April 20, 2010

(1) On the date of grant, the common stock of ATI was not listed for trading on any securities market. Accordingly, there was no market price on the date of grant.

**Aggregate Options**

The following table sets forth the number and value of unexercised options held by the Named Executive Officer as of December 31, 2003. There were no exercises of options by the Named Executive Officer in fiscal year 2003.

**Aggregated Option/SAR Exercises in Fiscal Year Ended December 31, 2003 and FY-End Option/SAR Values**

Name	Shares Acquired in Exercise	Value Realized	Number of Securities Underlying Unexercised Option/SARs at FY-End (#)	Value of Unexercised In-the-Money Option/SARs at FY-End (#)
			Exercisable/Unexercisable	Exercisable/Unexercisable <sup>(1)</sup>
Jacek Rozga, M.D., Ph.D	-	-	36,000/0	\$69,300/\$-0-

(1) Dollar amounts reflect the net values of outstanding stock options computed as the difference between \$2.50 (the last reported sale on December 31, 2003) and the exercise price of the options.

**Employment Agreements**

Dr. Rozga, receives compensation from us in his capacity as the President and Chief Financial Officer of this company and in his capacity as President, Chief Financial Officer and Chief Financial Officer of ATI, our operating subsidiary. In his capacity as the President and Chief Financial Officer of this company, Dr. Rozga earns an annual salary of \$65,000. In addition, Dr. Rozga and three of ATI's other employees provide services to ATI pursuant to that certain Employee Loan-Out Agreement, dated July 1, 2001, as amended, between ATI and Cedars-Sinai Medical Center. Dr. Rozga and the other employees are technically employed and paid by Cedars-Sinai Medical Center. Under the terms of the Loan-Out Agreement, the medical center permits Dr. Rozga to provide services to ATI, and ATI pays Cedars-Sinai Medical Center an amount equal Dr. Rozga's salary plus an amount equal to the cost of fringe benefits and Cedars-Sinai Medical Center pays to Dr. Rozga. Through this arrangement, Dr. Rozga earns an annual salary of \$135,000 (which amount is paid through Cedar-Sinai but funded by ATI). The Loan-Out Agreement expires on June 30, 2004, and may be terminated by either party upon notice of breach of the agreement, for cause, or breach of the facilities agreement pursuant to which the Company leases its laboratories from Cedar-Sinai, provided that the parties have an opportunity to cure the breach. Dr. Rozga has no obligations to Cedars-Sinai other than the services he is providing to this company. Other than the Loan-Out Agreement, Dr. Rozga does not have an employment contract with Cedar Sinai Medical Center.



### Compensation of Board of Directors

During the fiscal year ended December 31, 2003, HAUSA did not pay its directors any compensation for serving on the Board of Directors. ATI did, however, grant each of its directors stock options to purchase 18,000 shares of common stock at an exercise price of \$1.00 per share. The options have a term of seven years. Providing that the directors still are on the board at that time, one half of the options vest six months after the date of grant, and the remaining options vest on the first anniversary of the grant. We currently also reimburse all directors for any expenses incurred by them in attending meetings of the board of directors.

In February 2004, the Board of Directors voted to increase the number of options that each director would receive annually for services rendered as a director from 18,000 to 30,000. The vesting schedule (one-half vests after six months, the balance after one year) will remain the same as with options granted in 2003. Director options continue to be granted at the market price on the date of grant.

### SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information regarding beneficial ownership of our common stock as of June 7, 2004 (a) by each person known by us to own beneficially 5% or more of any class of our common stock, (b) by each of our Named Executive Officer and our directors and (c) by all executive officers and directors of this company as a group. As of June 7, 2004 there were 13,198,097 shares of our common stock issued and outstanding. Unless otherwise noted, we believe that all persons named in the table have sole voting and investment power with respect to all the shares beneficially owned by them. Except as otherwise indicated, the address of each stockholder is c/o the company at 8797 Beverly Blvd., Los Angeles, California, 90048.

Name and Address of Beneficial Owner	Shares Beneficially Owned	Percentage of Class
Jacek Rozga, M.D., Ph.D.	2, 371,000(2)	17.9%
Kristin P. Demetriou	2,536,000(3)	19.2%
John M. Vierling, MD	36,000(4)	*
Roy Eddleman	398,669 (5)	3.0%
Marvin S. Hausman MD	562,000(6)	4.2%
Richard W. Bank, MD	434,500(7)	3.3%
Achilles A. Demetriou, M.D., Ph.D	2,500,000(8)	19.0%
Cedars-Sinai Medical Center 8700 Beverly Boulevard, Los Angeles, California 90048	681,818	5.2%
Gary Ballen (9)140 Burlingame, Los Angeles, California 90049	1,017,000(9)	7.4%
Suncraft Limited (10)Room 2105, 21/F., West Tower Shun Tak Centre 168-200 Connaught Road Central Sheung Wan, Hong Kong	700,000(10)	5.2%
All executive officers and directors as a group (6 persons)	6,338,169(11)	46.4%

\* Less than 1%.

- (1) Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission and generally includes voting or investment power with respect to securities. Shares of common stock subject to options, warrants and convertible securities currently exercisable or convertible, or exercisable or convertible within 60 days, are deemed outstanding, including for purposes of computing the percentage ownership of the person holding such option, warrant or convertible security, but not for purposes of computing the percentage of any other holder.
- (2) Includes currently exercisable options to purchase 36,000 shares of common stock.
- (3) Consists of (i) 2,500,000 shares owned by the A & K Demetriou Family Trust, of which Kristin P. Demetriou is a co-trustee, and (ii) currently exercisable options to purchase 36,000 shares of common stock issued to Kristin P. Demetriou.
- (4) Consists of currently exercisable options to purchase 36,000 shares of common stock.
- (5) Consists of currently exercisable options to purchase 36,000 shares of common stock, and 362,669 shares of common stock owned by Spectrum Laboratories, Inc. Mr. Eddleman is the Chairman of the Board and Chief Executive Officer of Spectrum Laboratories, Inc.
- (6) Consists of (i) currently exercisable options to purchase 68,000 shares of common stock, (ii) currently exercisable warrants to purchase 150,000 shares of common stock, (iii) 100,000 shares owned by the Marvin Hausman Revocable Trust, and (iv) 244,000 shares owned by Northwest Medical Research, Inc. Dr. Hausman is the trustee of the Marvin Hausman Revocable Trust and the Chief Executive Officer and principal stockholder of Northwest Medical Research, Inc.
- (7) Includes (i) 40,000 shares of common stock, (ii) currently exercisable warrants to purchase 40,000 shares of common stock, (iii) 254,500 shares of common stock owned by First-Tier Biotechnology Partners LP, and (iv) currently exercisable warrants to purchase 100,000 shares of common stock owned by First-Tier Biotechnology Partners LP. Dr. Bank is the President and Managing Director of First-Tier Biotechnology Partners LP.
- (8) Consists of 2,500,000 shares owned by the A & K Demetriou Family Trust, of which Achilles A. Demetriou, M.D., Ph.D. is a co-trustee
- (9) Includes (i) 417,000 shares of common stock, and (ii) currently exercisable warrants to purchase 600,000 shares of common stock.
- (10) Includes (i) 350,000 shares of common stock, and (ii) currently exercisable warrants to purchase 350,000 shares of common stock.
- (11) Includes currently exercisable options to purchase 212,000 shares of common stock.

## SELLING STOCKHOLDERS

### Selling Stockholder Table

The shares to be offered by the selling stockholders are "restricted" securities under applicable federal and state securities laws and are being registered under the Securities Act of 1933, as amended (the Securities Act) to give the selling stockholders the opportunity to publicly sell these shares. The registration of these shares does not require that any of the shares be offered or sold by the selling stockholders. The selling stockholders may from time to time offer and sell all or a portion of their shares in the over-the-counter market, in negotiated transactions, or otherwise, at prices then prevailing or related to the then current market price or at negotiated prices.

The registered shares may be sold directly or through brokers or dealers, or in a distribution by one or more underwriters on a firm commitment or best efforts basis. To the extent required, the names of any agent or broker-dealer and applicable commissions or discounts and any other required information with respect to any particular offer will be set forth in a prospectus supplement. See "Plan of Distribution." The selling stockholders and any agents or broker-dealers that participate with the selling stockholders in the distribution of registered shares may be deemed to be "underwriters" within the meaning of the Securities Act, and any commissions received by them and any profit on the resale of the registered shares may be deemed to be underwriting commissions or discounts under the Securities Act.

No estimate can be given as to the amount or percentage of our common stock that will be held by the selling stockholders after any sales made pursuant to this prospectus because the selling stockholders are not required to sell any of the shares being registered under this prospectus. The following table assumes that the selling stockholders will sell all of the shares listed in this prospectus.

The following table sets forth the beneficial ownership of the selling stockholders:

Selling stockholder	Beneficial Ownership Before Offering <sup>(1)</sup>		Number of Shares Being Offered	Beneficial Ownership After Offering <sup>(1)</sup>	
	Number of Shares	Percent		Number of Shares	Percent
AFO Capital Advisors LLC	200,000	1.50%	200,000	-	-
The Jay H. Oyer and Amy Factor Family Foundation	5,000	*	5,000	-	-
The Melissa H. Oyer Trust	5,000	*	5,000	-	-
The Zachary D. Oyer Trust	5,000	*	5,000	-	-
American Charter & Marketing LLC	122,222	*	122,222	-	-
Alexander Angerman & Judith Angerman Trustees for the Angerman Family Trust	337,500	2.52%	337,500	-	-
Anka Consultants Ltd.	122,222	*	122,222	-	-
Gary Ballen	1,017,000	7.37%	1,017,000	-	-
Bank Julius Baer & Co. Ltd.	50,000	*	50,000	-	-
Richard W. Bank	80,000	*	80,000	-	-
H. Gerald Bidwell Revocable Trust	100,000	*	100,000	-	-
Walter C. Bowen	100,000	*	100,000	-	-
Jacqueline B. Brandwynne	200,000	1.50%	200,000	-	-
Brender Services Limited	100,000	*	100,000	-	-
Goose Bruinsma	100,000	*	100,000	-	-
Robert G. Burford & Martha Burford JTEN	50,000	*	50,000	-	-
Cedars-Sinai Medical Center	681,818	5.17%	681,818	-	-
John A. Combias	100,000	*	100,000	-	-



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National Investor Services Corp FBO Louis G. Cornacchia Roth IRA	100,000	*	100,000	-	-
Dalworth Capital Ltd.	200,000	1.50%	200,000	-	-
Joseph R. Edington IV	68,750	*	68,750	-	-
EPM AG	50,000	*	50,000	-	-
EPM Holding AG	100,000	*	100,000	-	-
Richard I. Fedder	200,000	*	200,000	-	-
Michael Feves	100,000	*	100,000	-	-
Larry S. Flax Revocable Trust	100,000	*	100,000	-	-
First Tier Biotechnology Partners LP	354,500	2.67%	350,000	4,500	*
Five Guys Investments, LLC	250,000	1.88%	250,000	-	-
4P Management Partners	50,000	*	50,000	-	-
Ernest F. Fox, Jr. TTEE for the Fran Fox Trust	60,000	*	60,000	-	-
Mary Lou Fox	20,000	*	20,000	-	-
Marc Gelman	237,500	1.78%	237,500	-	-
Manuel P. Graiwer	337,500	2.52%	337,500	-	-
Granadilla Holdings, Ltd.	200,000	1.50%	200,000	-	-
Adam Hausman	15,000	*	15,000	-	-
Jonathan Hausman	68,750	*	68,750	-	-
Marvin S. Hausman TTEE for the Marvin S. Hausman Revocable Trust	237,500	1.78%	237,500	-	-
Heinz Hofliger	50,000	*	50,000	-	-
Sanford J. Hillsberg	120,833	*	120,833	-	-
The Hillsberg Foundation	12,500	*	12,500	-	-
William D. Huyette & Shirley A. Huyette JTWR0S	60,000	*	60,000	-	-
Heather Ann Huyette Ochoa	20,000	*	20,000	-	-
Jason Daniel Huyette	20,000	*	20,000	-	-
Ben Jakobovits	100,000	*	100,000	-	-
Gary Kaplan & Susan Kaplan Family Trust	100,000	*	100,000	-	-
Ron S. Kaufman	50,000	*	50,000	-	-
Philip Klein	500,000	3.72%	500,000	-	-
Charles F. Kivowitz & Alexandra Kivowitz Co-Trustees for the Kivowitz Family Trust	100,000	*	100,000	-	-
Elena Konstat	50,000	*	50,000	-	-
Howard Lifshutz & Esther Lifshutz JTTE N	150,000	1.13%	150,000	-	-
Livorno Latin America Promotions B.V.	300,000	2.25%	300,000	-	-
P. Dennis & Barbara Lowry JTTE N	100,000	*	100,000	-	-
Norbert V. Mang	50,000	*	50,000	-	-
Scott Thomas Mc Killip	100,000	*	100,000	-	-
Manfred Mosk	260,333	1.95%	233,333	27,000	*
Norman J. Nemoy & Carole Curb-Nemoy TENCOM	100,000	*	100,000	-	-
Northwest Medical Research Inc.	244,000	1.85%	244,000	-	-
Arthur C. Piculell, Jr. & Dee W. Piculell JTTE N	237,500	1.78%	237,500	-	-
Richard D. Reinisch & Grace A. Reinisch JTTE N	200,000	1.50%	200,000	-	-



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Ira Rosenberg	50,000	*	50,000	-	-
Richard L. Rosenfield	100,000	*	100,000	-	-
David Rubin & Gitel Rubin JTEN	100,000	*	100,000	-	-
Anita Schmid	40,000	*	40,000	-	-
Seashore Investment Ltd. (BVI)	100,000	*	100,000	-	-
Blossom Shelton	50,000	*	50,000	-	-
Elliot L. Shelton	237,500	1.78%	237,500	-	-
Philip Sobol & Debra Sobol Revocable Trust	400,000	2.99%	400,000	-	-
Thomas W. Somers	50,000	*	50,000	-	-
Spectrum Laboratories Inc.	362,669	2.75%	362,669	-	-

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Stephenson Ventures	500,000	3.72%	500,000	-	-
Suncraft Limited	700,000	5.17%	700,000	-	-
Technomedics Management Systems, Inc.	138,750	1.05%	138,750	-	-
Triax Capital Management, Inc.	244,000	1.85%	244,000	-	-
Thomas G. Walsh	150,000	1.13%	150,000	-	-
Lisa Weiss	50,000	*	50,000	-	-
David Wohlberg	68,750	*	68,750	-	-
Wolfe Axelrod Weinberger Retirement Plan	100,000	*	100,000	-	-
Wolfe Axelrod Weinberger Associates, LLC	150,000	1.12%	150,000	-	-
Zevi Wolmark & Diana Wolmark JTEN	80,000	*	80,000	-	-
Mira Zeffren	50,000	*	50,000	-	-

\* Less than 1%

- (1) Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission and generally includes voting or investment power with respect to securities. Shares of common stock subject to options, warrants and convertible securities currently exercisable or convertible, or exercisable or convertible within 60 days, are deemed outstanding, including for purposes of computing the percentage ownership of the person holding the option, warrant or convertible security, but not for purposes of computing the percentage of any other holder.
- (2) Represents shares of our common stock issuable upon the exercise of outstanding warrants.

#### Relationships with Selling Stockholders

All stockholders, other than those discussed below, are investors who acquired their securities from us in one or more private placements prior to the Reorganization and who have had no position, office, or other material relationship (other than as purchasers of securities) with us or any of our affiliates within the past three years.

We are currently leasing office space and certain research facilities from Cedars-Sinai Medical Center under a three-year lease that expires on June 30, 2004. In addition, in 2000, Cedars-Sinai Medical Center granted us the exclusive and worldwide rights to five patents and other technical information, and we granted Cedars-Sinai Medical Center the nonexclusive rights to any products derived from the patents. As consideration for the license, we will have to pay Cedars-Sinai Medical Center royalty fees equal to 1.5% of the gross sales price of royalty bearing products. From the third to tenth years of the license, the royalty fee percent will phase out evenly to 0%. See Certain Relationships and Related Transactions, below. In connection with the grant of the foregoing license, Cedars-Sinai also purchased the 681,818 shares included in this prospectus for \$250,000.

We are a party to various agreements with Spectrum Laboratories, Inc., including a license agreement pursuant to which Spectrum Labs granted us an exclusive, worldwide license to develop, make, use and distribute products based on two Spectrum Labs patents, and a four-year research agreement pursuant to which we have agreed to combine our expertise and technologies to enable us to (i) develop liver assist systems, (ii) conduct pre-clinical and Phase I-III clinical testing, (iii) obtain regulatory approvals and (iv) commercialize liver assist systems. See Certain Relationships and Related Transactions, below. Concurrently with these agreements, in December 2001, Spectrum Labs also purchased, for \$54,400, the 362,669 shares of our common stock included in this prospectus. Mr. Eddleman, one of the members of our Board of Directors, is the Chairman and CEO of Spectrum Labs.

AFO Capital Advisors, LLC purchased the 100,000 shares of common stock, and the warrants to purchase the additional 100,000 shares, which shares are included in this prospectus, in the private placement we effected in October 2003. In November 2003, we entered into a consulting agreement with AFO Advisors, LLC pursuant to which AFO Advisors agreed to provide financial consulting services to us. AFO Capital and AFO Advisors are both controlled by Amy Factor and are affiliated entities. Under our consulting agreement with AFO Advisors, we granted Amy Factor options to purchase 175,000 shares at a price of \$1.00 per share and agreed to compensate AFO Advisors on an hourly basis for its services. AFO Advisors agreed that the financial consulting services under that agreement would be provided by Amy Factor. We have also agreed that we may retain AFO Advisors from time to time in connection with possible financing transactions. As of May 31, 2004, we have

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paid AFO Advisors \$13,000 for services related to financing transactions. The Jay H. Oyer and Amy Factor Family Foundation, The Melissa H. Oyer Trust, and The Zachary D. Oyer Trust are family trusts that are related to Amy Factor.

Technomedics Management and Systems, Inc. is owned and controlled by Dr. Manfred Mosk. Dr. Mosk was a director of ATI from October 2001 until October 2003. In August 2002, Technomedics Management and Systems, Inc. was issued a warrant to purchase 100,000 shares of common stock as compensation for advisory services rendered to ATI. In June 2002, we issued 70,000 shares of common stock to Dr. Mosk as compensation for services he rendered to us. We valued the 70,000 shares for operating expense purposes at \$10,500. The additional shares listed in the table that owned by Dr. Mosk, including the shares exercisable under outstanding warrants owned by Dr. Mosk, were acquired by him in cash purchases of such securities (including the conversion of a convertible note issued to other investors). In addition to the shares included in this prospectus, Dr. Mosk holds options to purchase a total of 27,000 shares of our common stock, which shares he received as compensation as a member of our Board of Directors.

Dr. Richard Bank, a member of this company's Board of Directors, received a warrant to purchase 40,000 shares of our common stock as a fee for introducing certain investors to this company. The warrant is exercisable at any time until January 5, 2007 at an exercise price of \$2.50 per share. Dr. Bank also is the President and Managing Director of First-Tier Biotechnology Partners. In addition to the shares included in this prospectus, Dr. Bank also holds options to purchase a total of 30,000 shares of our common stock, which shares he received as compensation as a member of our Board of Directors.

Dr. Hausman is a member of our Board of Directors. The 137,500 shares of Dr. Hausman included in this prospectus consist of 50,000 shares and warrants to purchase an additional 87,500 shares, that he received upon the conversion of a \$50,000 convertible loan that he made to us in September 2003. In July 2003, ATI granted Dr. Marvin Hausman a five-year option to purchase 50,000 shares of common stock, at an exercise price of \$1.00 per share, in consideration for Dr. Hausman's efforts in introducing us to an investor who made a \$250,000 investment in ATI. Dr. Hausman also holds options to purchase a total of 48,000 shares of our common stock, which shares he received as compensation as a member of our Board of Directors.

We issued a warrant to purchase 7,500 shares of our common stock to Adam Hausman as a finder's fee for introducing us to an investor. Adam Hausman is the son of Dr. Marvin Hausman, one of the members of our Board of Directors. The warrant is exercisable at any time until January 5, 2007 at an exercise price of \$2.50 per share.

Sandford J. Hillsberg is a managing partner of Troy & Gould Professional Corporation, our corporate and securities law firm. Mr. Hillsberg purchased the shares included in this prospectus for cash in a private placement that we effected in August 2002.

On March 30, 2004, we entered into a retainer agreement with Wolfe Axelrod Weinberger Associates LLC, an investor relations firm, pursuant to which Wolfe Axelrod agreed to provide us with investor relations services for a nine-month period ending December 31, 2004. At our option, the agreement may be extended before December 2004 for an additional nine months. Under the agreement, we are required to pay Wolfe Axelrod Weinberger Associates LLC \$6,000 per month. In addition, we granted to Wolfe Axelrod Weinberger Associates LLC a warrant to purchase 150,000 shares of our common stock at a price of \$3.40 per share in April 2004. In the event that we do not extend the retainer agreement beyond December 31, 2004, one half of the warrant (i.e. the right to purchase 75,000 shares) will expire and be terminated on December 31, 2004.

Mira Zeffren is the wife of David Zeffren. Mrs. Zeffren acquired the shares and warrants referred to in this prospectus in a private placement in October 2003. Mr. Zeffren has been our Director of Business Development since February 2004.

The information in the above table is as of the date of this prospectus. Information concerning the selling stockholders may change from time to time and any such changed information will be described in supplements to this prospectus if and when necessary.

#### PLAN OF DISTRIBUTION

We will pay the costs and fees of registering the shares of common stock, but the selling stockholders will pay any brokerage commissions, discounts or other expenses relating to the sale of these shares. The selling stockholders may sell the shares of common stock in the over-the-counter market or otherwise, at market prices prevailing at the time of sale, at prices related to the prevailing market prices or at negotiated prices. In addition, the selling stockholders may sell some or all of their shares through:

- 1 a block trade in which a broker-dealer may resell a portion of the block, as principal, in order to facilitate the transaction;
- 1 purchases by a broker-dealer, as principal, and resale by the broker-dealer for its account; or
- 1 ordinary brokerage transactions and transactions in which a broker solicits purchasers.

When selling the shares of common stock, the selling stockholders may enter into hedging transactions. For example, the selling stockholders may:

- 1 enter into transactions involving short sales of the shares by broker-dealers;
- 1 sell shares short themselves and redeliver the shares to close out their short positions;
- 1 enter into option or other types of transactions that require the selling stockholder to deliver shares to a broker-dealer, who will then resell or transfer the common shares under this prospectus; or
- 1 loan or pledge the shares to a broker-dealer, who may sell the loaned shares or, in the event of default, sell the pledged shares.

The selling stockholders may pay broker-dealers commissions, discounts or concessions for their services. The selling stockholders and any broker-dealers involved in the sale or resale of the shares of common stock may qualify as underwriters within the meaning of Section 2(a)(11) of the Securities Act, and may have civil liability under Section 11 and 12 of the Securities Act for any omissions or misstatements in this prospectus and the registration statement of which it is a part. In addition, the broker-dealers' commissions, discounts or concession may qualify as underwriters' compensation under the Securities Act.

In addition to selling their shares under this prospectus, the selling stockholders may transfer their shares in other ways not involving market makers or established trading markets, including directly by gift, distribution or other transfer.

To comply with the securities laws of some states, if applicable, the shares may be sold in those states only through brokers or dealers. In addition, in some states, the shares may not be sold in those states unless they have been registered or qualified for sale in those states or an exemption from registration or qualification is available and is complied with.

If necessary, the shares of common stock to be sold, the names of the selling stockholders, the respective purchase prices and public offering prices, the names of any agent, dealer or underwriter, and any applicable commissions or discounts with respect to a particular offer will be set forth in an accompanying prospectus supplement or, if appropriate, a post-effective amendment to the registration statement of which this prospectus is a part.

The rules and regulations in Regulation M under the Exchange Act provide that during the period that any person is engaged in the distribution (as that term is defined in Regulation M) of our common stock, that person generally may not purchase common stock. The selling stockholders are subject to applicable provisions of the Securities Act of 1933 and Securities Exchange Act of 1934 and the rules and regulations thereunder, including, without limitation, Regulation M, which provisions may limit the timing of purchases and sales of our common stock by the selling stockholders. The foregoing may affect the marketability of our common stock.

## **CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS**

### **Transactions Between Us and Our Affiliates**

We currently maintain our laboratory and certain office space at Cedars-Sinai Medical Center in Los Angeles, California, which facilities we lease under a three-year lease that expires on June 30, 2004. See **Business--Property**. We currently pay rent of \$6,441 per month to Cedars-Sinai Medical Center under the lease. Cedars-Sinai Medical Center owns approximately 5.2% of our outstanding common stock.

Cedars-Sinai Medical Center has granted ATI the exclusive and worldwide rights to five patents and other technical information. In consideration for the licenses to the five patents and other technical information, we must expend an aggregate amount of \$1,760,000 in research and development expenses toward the development and promotion of products derived from the patents by June 30, 2008. Additionally, Cedars-Sinai Medical Center will have nonexclusive rights to any products derived from the patents. We will have to pay Cedars-Sinai Medical Center royalty fees equal to 1.5% of the gross sales price of royalty bearing products. From the third to tenth years of the license, the royalty fee percent will phase out evenly to 0%. See **Business Patents and Proprietary Rights** for a description of the licensed patents.

On December 26, 2001, ATI entered into various agreements with Spectrum Laboratories, Inc. ( **Spectrum Labs** ). Concurrently with these agreements, Spectrum Labs also purchased 362,669 shares of ATI common stock (or 2.8% of our shares of that were outstanding on June 8, 2004). Mr. Eddleman, one of the members of our Board of Directors, is the Chairman and CEO of Spectrum Labs. The three principal agreements entered into by ATI and Spectrum Labs in December 2001 are the following:

A. License Agreement. Spectrum Labs granted to ATI an exclusive, worldwide license to develop, make, use and distribute products based on two Spectrum Labs patents. Provided that ATI purchases the hollow fiber cartridges that it expects that it will need for its products from Spectrum Labs, ATI will not have to pay a royalty for the license. In the event that Spectrum Labs is not the manufacturer of the hollow fiber cartridges, ATI will have to pay Spectrum Labs a royalty for the license (see, Business--Manufacturing and Supply Agreement ). Spectrum Labs also agreed to grant ATI a right of first refusal to obtain a license to make, use, develop or distribute products based on Spectrum Labs technology other than in liver assisted products, provided that such other products are in the fields of artificial blood therapy and bioprocessing and therapeutic devices.

B. Research Agreement. ATI and Spectrum Labs also entered into a four-year research agreement pursuant to which ATI and Spectrum Labs agreed to combine their expertise and their respective technologies to enable ATI to (i) develop liver assist systems, (ii) conduct pre-clinical and Phase I-III clinical testing, (iii) obtain regulatory approvals and (iv) commercialize such liver assist systems. Under the terms of the agreement, Spectrum Labs agreed to perform certain research on liver assist devices for ATI during product development, pre-clinical and clinical testing at no cost to ATI. Spectrum Labs also agreed to pay for all costs and expenses in connection with the research program and agreed to allocate a total of \$550,000 to the program during the research term. In October 2002, ATI and Spectrum Labs agreed that Spectrum Labs has now satisfied its research and development obligations, that ATI owed Spectrum Labs an additional \$54,960 for services provided by Spectrum Labs (which amount is being repaid in 18 monthly installments ending in May 2004), and that the 362,669 shares of ATI common stock previously issued to Spectrum Labs are now fully vested. Spectrum Labs has agreed to perform additional research and development work as may be requested by ATI on such terms as the parties may agree to in good faith negotiations.

C. Manufacturing and Supply Agreement. ATI and Spectrum Labs have also entered into an agreement pursuant to which the parties have agreed that Spectrum Labs will manufacture for ATI the hollow fiber cartridges with fiber-in-fiber geometry that ATI intends to use for its LIVERAID device. The agreement provides that the price of the hollow fiber-in-fiber cartridges to be sold by Spectrum Labs to ATI will be determined by good faith negotiations between the parties. ATI has agreed that it will not purchase cartridges with fiber-in-fiber geometry from any other manufacturer unless Spectrum Labs is either unable or unwilling to manufacture the cartridges. In the event that Spectrum Labs is unwilling to manufacture the fiber-in-fiber cartridges for ATI, ATI shall have the right to have a third party manufacture the cartridges for it, in which case ATI will pay Spectrum Labs a royalty for the license granted to ATI by Spectrum Labs under the License Agreement. The royalty shall be equal to 3% of the net sales (total sales less taxes, returns, transportation, insurance, and handling charges) attributed solely to the fiber-in-fiber cartridges.

Our management believes that the foregoing transactions with Cedars-Sinai Medical Center and Spectrum Labs were on terms as favorable to this company as could have been obtained from unrelated third parties.

In July 2003, ATI granted Dr. Marvin Hausman a five-year warrant to purchase 50,000 shares of common stock, at an exercise price of \$1.00 per share, in consideration for Dr. Hausman's efforts in introducing ATI to an investor who made a \$250,000 investment in ATI. Dr. Hausman is a member of this company's Board of Directors and a member of ATI's Board of Directors.

Dr. Richard Bank received a warrant to purchase 40,000 shares of our common stock as a fee for introducing certain investors to this company. The warrant is exercisable at any time until January 5, 2007 at an exercise price of \$2.50 per share. Dr. Bank is a director of this company.

## DESCRIPTION OF SECURITIES

We are presently authorized to issue 25,000,000 shares of \$.001 par value common stock and 5,000,000 shares of \$0.001 par value preferred stock. As of June 8, 2004, we had 13,198,097 shares of common stock issued and outstanding and no preferred stock issued and outstanding.

### Common Stock

The holders of our common stock are entitled to equal dividends and distributions per share with respect to the common stock when, as and if declared by the board of directors from funds legally available therefore. No holder of any shares of common stock has a preemptive right to subscribe for any of our securities, nor are any common shares subject to redemption or convertible into other securities. Upon liquidation, dissolution or winding-up of our company, and after payment of creditors and preferred stockholders, if any, the assets will be divided pro rata on a share-for-share basis among the holders of the shares of common stock. All shares of common stock now outstanding are fully paid, validly issued and non-assessable. Each share of our common stock is entitled to one vote with respect to the election of any director or any other matter upon which stockholders are required or permitted to vote.

### Preferred Stock

Under our articles of incorporation, the board of directors has the power, without further action by the holders of the common stock, to designate the relative rights and preferences of the preferred stock, and to issue the preferred stock in one or more series as designated by the board of directors. The designation of rights and preferences could include preferences as to liquidation, redemption and conversion rights, voting rights, dividends or other preferences, any of which may be dilutive of the interest of the holders of the common stock or the preferred stock of any other series. The issuance of preferred stock may have the effect of delaying or preventing a change in control of the company without further stockholder action and may adversely affect the rights and powers, including voting rights, of the holders of the common stock.

### Registration Rights

In 2003 we entered into registration rights agreements with the investors who, in the aggregate, purchased 4,400,000 units. Each unit consisted of one share our common stock and one common stock purchase warrant. In those registration rights agreements, we agreed to file a registration statement, at our expense, to register the resale of the 4,400,000 shares of our common stock that are issuable upon the exercise of the warrants held by those investors. Our Board of Directors has also approved the registration of the 4,400,000 shares that were included in the units. The registration statement is required to be filed after January 31, 2004 if (i) requested in writing by the holders of a majority of the then outstanding warrants (including any shares previously issued upon the exercise of the warrants), and (ii) the closing price of our common stock has exceeded \$2.50 for 20 consecutive trading days. This prospectus includes the shares that we are obligated to register under the foregoing registration rights agreements.

The warrant that we issued to Wolfe Axelrod Weinberger Associates LLC for the purchase of 150,000 shares of our common stock granted the holder of that warrant piggyback registration rights. Under the piggyback registration provisions, we are required, subject to certain limited exceptions, to register the 150,000 shares of our common stock in any registration statement that we file. This prospectus includes the 150,000 shares that we are obligated to register under the registration rights provision of the warrant.



In connection with the organization and initial capitalization of ATI, we also granted certain piggy-back registration rights to The A & K Demetriou Family Trust, Jacek Rozga, and Cedars-Sinai Medical Center, our initial three stockholders. Under these agreements, subject to certain customary conditions and exceptions, the foregoing three stockholders have the right to include in any future registration statement filed by this company some or all of their shares of the common stock. The A & K Demetriou Family Trust, Jacek Rozga have waived their rights to have their shares included in this prospectus.

#### **Shares Eligible For Future Sale**

As of June 7, 2004, we had 13,198,097 shares of common stock outstanding. That number does not include (i) the 644,000 shares that are reserved for issuance under outstanding options and that may be issued if and when the options are exercised, or (ii) the 5,597,500 shares that are included in this prospectus and that may be issued upon the exercise of currently outstanding warrants.

Freely Tradeable Shares After Offering. As of June 8, 2004, only 1,220,000 shares of our 13,198,097 outstanding shares were free trading shares. However, upon the sale of the 7,143,097 currently outstanding shares covered by this prospectus, and the exercise and sale of the 5,597,500 warrant shares included in this prospectus, all of these 12,740,597 shares will also be freely tradable without restriction or limitation under the Securities Act. As a result, after the completion of this offering, there will be a total of 13,960,597 shares of our common stock that will be tradable without restriction under the Securities Act. Other than these 13,960,597 shares, the remaining 4,820,000 shares are restricted securities as that term is defined in Rule 144 promulgated under the Securities Act.

Rule 144. In general, under Rule 144 as currently in effect, a person (or persons whose shares are aggregated) who has beneficially owned restricted securities shares for at least one year, including persons who may be deemed our affiliates, as that term is defined under the Securities Act, would be entitled to sell within any three month period a number of shares that does not exceed the greater of 1% of the then outstanding shares (approximately 131,981 shares if the currently outstanding warrants and options are not exercised, or 187,480 shares if all outstanding options and warrants are exercised) or the average weekly trading volume of shares during the four calendar weeks preceding such sale. Sales under Rule 144 are subject to certain manner-of-sale provisions, notice requirements and the availability of current public information about the company. A person who has not been our affiliate at any time during the three months preceding a sale, and who has beneficially owned his shares for at least two years, would be entitled under Rule 144(k) to sell such shares without regard to any volume limitations under Rule 144.

Of the 11,978,097 restricted shares currently outstanding, 11,930,597 shares will become eligible for public resale under Rule 144 commencing on October 30, 2004. The sale, or availability for sale, of substantial amounts of common stock could, in the future, adversely affect the market price of the common stock and could impair our ability to raise additional capital through the sale of our equity securities or debt financing. The future availability of Rule 144 to our holders of restricted securities would be conditioned on, among other factors, the availability of certain public information concerning the company.

Form S-8 Registration of Options. We intend to file a registration statement on Form S-8 covering the shares of common stock that have been reserved for issuance under our stock option plan, which would permit the resale of such shares in the public marketplace.

### **Transfer Agent**

Our transfer agent currently is The Nevada Agency and Trust Company, 50 West Liberty Street, Suite 880, Reno, Nevada 89501.

### **INTERESTS OF NAMED EXPERTS AND COUNSEL**

No expert or counsel was hired on a contingent basis that will receive a direct or indirect interest in our business that is valued at greater than \$50,000.

The financial statements for the years ended December 31, 2003 and 2002 included in this prospectus have been audited by Stonefield Josephson, Inc. to the extent and for the periods indicated in their report thereon. Such financial statements have been included in this prospectus and registration statement in reliance upon the report of Stonefield Josephson, Inc. and upon the authority of such firm as experts in auditing and accounting.

### **DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES ACT LIABILITIES**

Our Articles of Incorporation provide that no officer or director shall be personally liable to this corporation or its stockholders for monetary damages except as provided pursuant to Nevada Revised Statutes. Our bylaws and Articles of Incorporation also provide that we shall indemnify and hold harmless each person who serves at any time as a director or officer of Arbios Systems, Inc. from and against any and all claims, judgments and liabilities to which such person shall become subject by reason of the fact that he is or was a director or officer of Arbios Systems, Inc., and shall reimburse such person for all legal and other expenses reasonably incurred by him or her in connection with any such claim or liability. We also have the power to defend such person from all suits or claims in accord with the Nevada Revised Statutes. The rights accruing to any person under our bylaws and Articles of Incorporation do not exclude any other right to which any such person may lawfully be entitled, and we may indemnify or reimburse such person in any proper case, even though not specifically provided for by the bylaws and Articles of Incorporation.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the small business issuer pursuant to the foregoing provisions, or otherwise, the small business issuer 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.

### **LEGAL MATTERS**

Troy & Gould Professional Corporation, Los Angeles, California, has rendered an opinion with respect to the validity of the shares of common stock covered by this prospectus. Sanford Hillsberg, a managing member of Troy & Gould Professional Corporation, owns 120,833 shares of our common stock, which shares are included in this prospectus.

### **WHERE YOU CAN FIND MORE INFORMATION**

We have filed with the Securities and Exchange Commission a registration statement on Form SB-2 under the Securities Act for the common stock offered under this prospectus. We are subject to the informational requirements of the Exchange Act, and file reports, proxy statements and other information with the Commission. These reports, proxy statements and other information filed by Arbios Systems, Inc. can be inspected and copied at the public reference facilities of the Commission at 450 Fifth Street, N.W., Washington, D.C. 20549. Copies of these materials can be obtained from the Public Reference Section of the Commission at 450 Fifth Street, N.W., Washington, D.C. 20549, at prescribed rates. The Commission also maintains a Web site that contains reports, proxy statements, information statements and other information concerning Arbios Systems, Inc. at the site located at <http://www.sec.gov>. This prospectus does not contain all the information in the registration statement and its exhibits, which we have filed with the Commission under the Securities Act and to which reference is made.

## GLOSSARY OF TERMS

**BAL** means a bioartificial liver.

**Dialysate** is a cleansing liquid used in the two forms of dialysis hemodialysis and peritoneal dialysis.

**Dialysis** is the process of cleaning wastes from the blood artificially. This job is normally done by the kidney and liver.

**Extracorporeal** means situated or occurring outside the body.

**Ex vivo** pertains to a biological process or reaction taking place outside of a living cell or organism.

**Fulminant** means occurring suddenly, rapidly, and with great severity or intensity.

**Hemodialysis** pertains to the use of a machine to clean wastes from blood after the kidneys have failed. The blood flows through a device called a dialyzer, which removes the wastes. The cleaned blood then flows back into the body.

**Hemofiltration/ Hemofiltrate** "Hemofiltration" is a continuous dialysis therapy in which blood is pumped through a hollow-fiber cartridge and the liquid portion of blood containing substances are removed into the sink compartment. The liquid portion of the blood ("hemofiltrate") is discarded.

**Hepatitis** is an inflammation of the liver caused by infectious or toxic agents.

**Hepatocytes** are the organ tissue cells of the liver.

**IND** means Investigational New Drug application.

**In vitro** pertains to a biochemical process or reaction taking place in a test-tube (or more broadly, in a laboratory) as opposed to taking place in a living cell or organism.

**In vivo** pertains to a biological process or reaction taking place in a living cell or organism.

**PERV** means the porcine endogenous retrovirus.

**Plasma** is the clear, yellowish fluid portion of blood. Plasma differs from serum in that it contains fibrin and other soluble clotting elements.

**Porcine** means of or pertaining to swine; characteristic of the hog.

**Regeneration** means regrowth of lost or destroyed parts or organs.

**Sorbent** means to take in and adsorb or absorb.

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**AUDITED FINANCIAL STATEMENTS**

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors  
Arbios Systems, Inc. and Subsidiary  
Beverly Hills, California

We have audited the accompanying consolidated balance sheet of Arbios Systems, Inc. and Subsidiary as of December 31, 2003 and the related consolidated statements of operations, stockholders' equity and cash flows for the years ended December 31, 2003 and 2002, and from August 23, 2000 (inception) to December 31, 2003. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards of the Public Company Accounting Oversight Board (United States). 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 audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Arbios Systems, Inc. and Subsidiary as of December 31, 2003 and the results of their operations and cash flows for the years ended December 31, 2003 and 2002, and from August 23, 2000 (inception) to December 31, 2003, in conformity with accounting principles generally accepted in the United States of America.

CERTIFIED PUBLIC ACCOUNTANTS

Santa Monica, California  
March 9, 2004

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
(A DEVELOPMENT STAGE COMPANY)

**CONSOLIDATED BALANCE SHEET - DECEMBER 31, 2003**

**ASSETS**

**CURRENT ASSETS:**

Cash	\$ 3,507,086
Prepaid expenses	155,986

---

Total current assets	\$ 3,663,072
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PROPERTY AND EQUIPMENT, net 45,633

PATENT RIGHTS, net 324,145

DEPOSITS 7,434

---

\$ 4,040,284

---

**LIABILITIES AND STOCKHOLDERS' EQUITY**

**CURRENT LIABILITIES:**

Accounts payable and accrued expenses	\$ 148,229
Current maturities of capital lease obligation	8,526

**LONG-TERM LIABILITIES:**

Capital lease obligation, less current maturities	6,826
Other liabilities	5,555

---

Total long-term liabilities 12,381

**STOCKHOLDERS' EQUITY:**

Preferred stock, \$.001 par value, 5,000,000 shares authorized none issued and outstanding	-
Common stock, \$.001 par value; 25,000,000 shares authorized; 13,150,598 shares issued and outstanding	13,151
Additional paid-in capital	5,485,498

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Deficit accumulated during the development stage	<u>(1,627,501)</u>	
<b>Total stockholders' equity</b>		<u>3,871,148</u>
		<u>\$ 4,040,284</u>

The accompanying notes form an integral part of these consolidated financial statements.



**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**CONSOLIDATED STATEMENTS OF OPERATIONS**

Year  
ended  
December  
31, 2003

Year ended  
December  
31, 2002

August  
23, 2000 (Inception) to Period Ended December  
31, 2003

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REVENUES \$137,828 \$111,108 \$248,936

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OPERATING EXPENSES:                      General and administrative 340,067 172,737 617,239 Research  
and development 436,849 431,199 1,009,674

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Total operating expenses 776,916 603,936 1,626,913

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LOSS BEFORE OTHER  
EXPENSE (639,088) (492,828) (1,377,977)                      (243,230) (830) (243,157) INTEREST EXPENSE, NET

---

	LOSS BEFORE PROVISION FOR INCOME TAXES	(882,318)	(493,658)	(1,621,134)		PROVISION
FOR INCOME TAXES	3,375	1,122	6,367			

NET LOSS \$(885,693)

\$

(494,780)

\$

(1,627,501)

BASIC AND DILUTED LOSS PER SHARE \$(0.11)

\$

(0.08) \$(0.27)

BASIC AND DILUTED WEIGHTED AVERAGE	COMMON SHARES			
OUTSTANDING	7,887,237	5,897,225	6,091,089	

The accompanying notes form an integral part of these consolidated financial statements.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A Development Stage Company)

**CONSOLIDATED STATEMENT OF STOCKHOLDER'S EQUITY****PERIOD FROM AUGUST 23, 200 (INCEPTION) TO DECEMBER 31, 2003**

	Preferred Stock		Common Stock		Additional	
	Shares	Amount	Shares	Amount	Capital	
Balance, August 23, 2000 (inception) restated for effect of reverse merger with Historical Autographs U.S.A., Inc.			-	\$ -	\$ -	
Stock issuance in exchange for cash			5,000,000	50	4,950	
<b>Net loss</b>						
Balance, December 31, 2000, as restated		-	-	5,000,000	50	4,950
Issuance of junior preferred stock for cash of \$ 250,000 and in exchange for patent rights, research and development costs, and employee loan-out costs less issuance expenses of \$11,268, June 29, 2001	681,818		7		958,278	
				Deficit Accumulated During the Development Stage	Total	
Balance, August 23, 2000 (inception) restated for effect of reverse merger with Historical Autographs U.S.A., Inc.					\$ -	
Stock issuance in exchange for cash					5,000	
<b>Net loss</b>				(9,454)	(9,454)	

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Balance, December 31, 2000, as restated	-	(9,454)	(4,454)
---	---	---------	---------

Issuance of junior preferred stock for cash of \$250,000 and in exchange for patent rights, research and development costs, and employee loan-out costs less issuance expenses of \$11,268, June 29, 2001	(343,553)		614,732
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The accompanying notes form an integral part of these consolidated financial statements.

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**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
(A DEVELOPMENT STAGE COMPANY)

**CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY**

**PERIOD FROM AUGUST 23, 2000 (INCEPTION) TO DECEMBER 31, 2003**

	Preferred Stock		Common Stock		Additional Paid-In Capital	Deferred Costs	Deficit Accumulated During the Development Stage	Total
	Shares	Amount	Shares	Amount				
Issuance of common stock in exchange for patent rights and deferred research and development costs			362,669	4	547,284			547,288
Services receivable						(550,000)		550,000
Deferred employee loan-out costs receivable earned						82,888		82,888
Net loss							(237,574)	(237,574)
Balance December 31, 2001	681,919	7	5,362,669	54	1,510,512	(810,665)	(247,028)	452,880
Amendment of December 31, 2001 agreement for the issuance of common stock agreement in exchange for research and development services					(495,599)	550,000		54,401
Deferred employee loan-out costs receivable earned						171,776		171,776
Issuance of common stock for compensation			70,000	1	10,499			10,500
Issuance of common stock for cash			999,111	9	149,857			149,866

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**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
(A DEVELOPMENT STAGE COMPANY)

**CONSOLIDATED STATEMENT OF STOCKHOLDERS' EQUITY**

**PERIOD FROM AUGUST 23, 2000 (INCEPTION) TO DECEMBER 31, 2003**

	Preferred Stock		Common Stock		Additional Paid-In Capital	Deferred Costs	Deficit Accumulated During the Development Stage	Total
	Shares	Amount	Shares	Amount				
Net loss							(494,780)	(494,780)
Balance, December 31, 2002	681,818	\$ 7	6,431,780	\$ 64	\$ 1,175,269	\$ (88,889)	\$ (741,808)	\$ 344,643
Issuance of common stock for cash less issuance expense of \$2,956			417,000	417	246,827			247,244
Issuance of common stock for convertible debenture less issuance expense of \$519,230			4,000,000	4,000	3,476,770			3,480,770
Issuance of common stock for convertible debenture less issuance expense of \$49,500			400,000	400	350,100			350,500
Shares issued in connection with acquisition of Historical Autographs U.S.A., Inc. on October 30, 2003			1,220,000	8,263	(8,263)			□
Value of warrants and beneficial conversion feature of bridge loan					244,795			244,795
Deferred employee loan-out costs receivable earned						88,889		88,889
Preferred Stock converted to Common Stock	(681,818)	(7)	681,818	7				
Net loss							(885,693)	(885,693)
Balance, December 31, 2003	□	\$ □	13,150,598	\$ 13,151	\$ 5,485,498	□	\$ (1,627,501)	\$ 3,871,148

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A Development Stage Company)

**CONSOLIDATED STATEMENTS OF CASH FLOWS**

	Year ended December 31, 2003	Year ended December 31, 2002	Period from August 23, 2000 (Inception) to Period Ended December 31, 2003
CASH FLOWS USED FOR OPERATING ACTIVITIES:			
Net loss	\$ (885,693)	\$ (494,780)	\$ (1,627,501)
ADJUSTMENTS TO RECONCILE NET INCOME (LOSS) TO NET CASH PROVIDED BY (USED FOR) OPERATING ACTIVITIES:			
Amortization of debt discount	244,795	--	244,795
Depreciation and amortization	40,243	33,774	92,337
Issuance of common stock for compensation	--	10,500	10,500
Settlement of accrued expense	--	54,401	54,401
Deferred compensation costs	88,889	171,776	319,553
CHANGES IN ASSETS AND LIABILITIES:			
(INCREASE)			
DECREASE IN ASSETS:			
Prepaid expenses	(135,177)	8,798	(155,988)
Deposit	--	--	(7,434)
INCREASE (DECREASE) IN LIABILITIES:			
Accrued liabilities	78,411	53,817	148,230
Other	--	5,556	5,556
Total adjustments	317,161	338,622	711,950
Net cash used for operating activities	(568,532)	(156,158)	(915,551)
CASH FLOWS USED FOR INVESTING ACTIVITIES -			

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purchase of property and equipment	(23,470)	(6,340)	(37,115)
<b>CASH FLOWS PROVIDED BY (USED FOR) FINANCING ACTIVITIES:</b>			
Proceeds from convertible promissory note	400,000	--	400,000
Proceeds from issuance of preferred stock	--	--	250,000
Proceeds from issuance of common stock	4,250,200	149,866	4,405,066
Payments on capital lease obligations, net	(7,275)	(2,373)	(9,648)
Cost of issuance of preferred stock	--	--	(11,268)
Cost of issuance of common stock	(571,686)	--	(574,398)
Net cash provided by financing activities	4,071,239	147,493	4,459,752
<b>NET INCREASE (DECREASE) IN CASH</b>	<b>3,479,237</b>	<b>(15,005)</b>	<b>3,507,086</b>
CASH, beginning of period	27,849	42,854	--
CASH, end of year	\$ 3,507,086	\$ 27,849	\$ 3,507,086
<b>SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION:</b>			
Interest paid	\$ --	\$ --	\$ --
Income taxes paid	\$ --	\$ 800	\$ 2,992

**SUPPLEMENTAL DISCLOSURE OF NON-CASH FINANCING INFORMATION:**

During the year ended December 31, 2003, \$400,000 of convertible promissory notes were converted into 400,000 shares of common stock and 681,818 shares of preferred stock were converted into common shares.

See Note (1) regarding the transaction with historical autographs, U.S.A. Inc.

The accompanying notes form an integral part of these consolidated financial statements.





**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**FOR THE YEARS ENDED DECEMBER 31, 2003 AND 2002**

(1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

**GENERAL**

Arbios Systems, Inc. and its wholly owned subsidiary (collectively, the "Company") are engaged in developing and marketing liver-assist devices to meet the urgent need for therapy that facilitates recovery from liver failure. The Company's products in development are called SEPET(TM), which is a blood purification therapy device for patients with liver failure, and LIVERAID(TM), which is a bioartificial liver.

On October 30, 2003, Historical Autographs U.S.A., Inc. and Arbios Technologies, Inc. consummated a reverse merger, in which Arbios Technologies, Inc. became the wholly owned subsidiary of Historical Autographs U.S.A., Inc. Concurrently with the merger, Historical Autographs U.S.A., Inc. changed its name to Arbios Systems, Inc. and is herein referred to as "Systems". The shareholders of Arbios Technologies, Inc. transferred ownership of one hundred percent of all the issued and outstanding shares of their capital stock of Arbios Technologies, Inc. in exchange for 11,930,598 newly issued shares, or approximately 91%, of the common stock, \$0.001 par value, of Systems. At that time, the former management of Systems resigned and was replaced by the same persons who serve as officers and directors of Arbios Technologies, Inc. Inasmuch as the former owners of Arbios Technologies, Inc. controlled the combined entity after the merger, the combination was accounted for as a purchase by Arbios Technologies, Inc. as acquirer, for accounting purposes in accordance with Statement of Financial Accounting Standards No. 141 using reverse merger accounting, and no adjustments to the carrying values of the assets or liabilities of the acquired entity were required. Proforma operating results, as if the acquisition had taken place at the beginning of the period, have not been presented as the operations of the acquiree were negligible. The financial position and results of operations of Systems is included in the consolidated statements of the Company from the date of acquisition.

**DEVELOPMENT STAGE ENTERPRISE:**

The Company is a development stage enterprise as defined in Statement of Financial Accounting Standards ("SFAS") No. 7, "Accounting and Reporting by Development Stage Enterprises." The Company is devoting substantially all of its present efforts to establish a new business. Its planned principal operations have not yet commenced, with the exception of research and development, which were initiated in 2000 and are being vigorously pursued. All losses accumulated since inception have been considered as part of the Company's development stage activities. Payments received under contracts to fund certain research activities are recognized in the period on which the research activities are performed. Payments received in advance that are related to future performance will be deferred and recognized as revenue when the research projects are performed.

**PRINCIPLES OF CONSOLIDATION:**

The accompanying consolidated financial statements include the accounts of the Systems and its wholly owned subsidiary, Arbios Technologies, Inc. All material intercompany accounts have been eliminated in consolidation.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

(1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, CONTINUED:

**USE OF ESTIMATES:**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

**FEDERAL GOVERNMENT GRANTS:**

The Company is partially funded by certain governmental grants. Payments received under contracts to fund certain research activities are recognized as revenue in the period in which the research activities are performed. Payments received in advance that are related to future performance will be deferred and recognized as revenue when the research project are performed. Reimbursements recorded under these grants are subject to governmental audit. Management believes that material adjustments will not result from subsequent audits, if any, of costs reflected in the accompanying financial statements.

**COMPREHENSIVE INCOME:**

SFAS No. 130, "Reporting Comprehensive Income", establishes standards for the reporting and display of comprehensive income and its components in the financial statements. As of December 31, 2003 and 2002, the Company has no items that represent comprehensive income and therefore, the Company has not included a schedule of comprehensive income in the financial statements.

**PROPERTY AND EQUIPMENT:**

Property and equipment are stated at cost. Depreciation is provided using the straight-line method over estimated useful lives of the assets of five years.

**PATENT RIGHTS:**

The Company purchased the exclusive right to certain patents (see Note 3). These patents are recorded at fair market value as of the date of purchase. They are amortized over the estimated useful life or remaining legal life at the date of purchase, whichever is shorter.

**DEFERRED EMPLOYEE LOAN-OUT COSTS RECEIVABLE:**

The Company purchased the loan-out of certain employees in exchange for junior preferred stock (see Note 4). These loan-out costs are expensed as the employee services are performed.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

(1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, CONTINUED:

**FAIR VALUE OF FINANCIAL INSTRUMENTS:**

The Company's financial instruments, none of which are held for trading purposes, include cash and accounts payable and accrued expenses, have carrying amounts which approximate fair value due to their short maturities.

**INCOME TAXES:**

Deferred income taxes are recognized for the tax consequences in future years of differences between the tax bases of assets and liabilities and their financial reported amounts at each period end, based on enacted tax laws and statutory tax rates applicable to the period in which the differences are expected to affect taxable income. Valuation allowances are established, when necessary, to reduce deferred tax assets to the amount expected to be realized. The provision for income taxes represents the tax payable for the period, if any, and the change during the period in deferred tax assets and liabilities.

**STOCK-BASED COMPENSATION:**

SFAS No. 123, "Accounting for Stock-Based Compensation," establishes and encourages the use of the fair value based method of accounting for stock-based compensation arrangements under which compensation cost is determined using the fair value of stock-based compensation determined as of the date of grant and is recognized over the periods in which the related services are rendered. The statement also permits companies to elect to continue using the current intrinsic value accounting method specified in Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees," to account for stock-based compensation. The Company has elected to use the intrinsic value based method and has disclosed the pro forma effect of using the fair value based method to account for its stock-based compensation issued to employees. For non-employee stock based compensation the Company recognizes an expense in accordance with SFAS No. 123 and values the equity securities based on the fair value of the security on the date of grant.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002**

## (1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, CONTINUED:

**STOCK-BASED COMPENSATION, CONTINUED:**

If the Company had elected to recognize compensation cost for its stock options and warrants based on the fair value at the grant dates, in accordance with SFAS 123, net earnings and earnings per share would have been as follows:

	December 31, 2003	December 31, 2002
Net loss as reported	\$ (885,693)	\$ (494,780)
Compensation recognized under APB 25	--	--
Compensation recognized under SFAS 123	(12,710)	(18,042)
Proforma	\$ (898,403)	\$ (512,822)
Basic and diluted loss per common share:		
As reported	\$ (0.11)	\$ (0.08)
Proforma	\$ (0.11)	\$ (0.09)

The fair value of each option is estimated on the date of grant using the Black Scholes option-pricing model. The following weighted-average assumptions were used in the Black Scholes option-pricing model; dividend yield nil, expected volatility 0.05%, risk free interest rate 3.0% and expected life of 7 years.

**LOSS PER SHARE:**

The Company utilizes SFAS No. 128, "Earning per Share." Basic loss per share is computed by dividing loss available to common shareholders by the weighted-average number of common shares outstanding. Diluted loss per share is computed similar to basic loss per share except that the denominator is increased to include the number of additional common shares that would have been outstanding if the potential common shares had been issued and if the additional common shares were dilutive. The computation of diluted loss per share does not assume conversion, exercise or contingent exercise of securities that would have an anti-dilutive effect on losses.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

(1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, CONTINUED:

**RECENT ACCOUNTING PRONOUNCEMENTS:**

During April 2003, the FASB issued SFAS 149 - "Amendment of Statement 133 on Derivative Instruments and Hedging Activities", effective for contracts entered into or modified after June 30, 2003, except as stated below and for hedging relationships designated after June 30, 2003. In addition, except as stated below, all provisions of this Statement should be applied prospectively. The provisions of this Statement that relate to Statement 133 Implementation Issues that have been effective for fiscal quarters that began prior to June 15, 2003, should continue to be applied in accordance with their respective effective dates. In addition, paragraphs 7(a) and 23(a), which relate to forward purchases or sales of when-issued securities or other securities that do not yet exist, should be applied to both existing contracts and new contracts entered into after June 30, 2003. The Company does not participate in such transactions, however, is evaluating the effect of this new pronouncement, if any.

During May 2003, the FASB issued SFAS 150 - "Accounting for Certain Financial Instruments with Characteristics of both Liabilities and Equity", effective for financial instruments entered into or modified after May 31, 2003, and otherwise is effective at the beginning of the first interim period beginning after June 15, 2003. This Statement establishes standards for how an issuer classifies and measures certain financial instruments with characteristics of both liabilities and equity. It requires that an issuer classify a freestanding financial instrument that is within its scope as a liability (or an asset in some circumstances). Many of those instruments were previously classified as equity. Some of the provisions of this Statement are consistent with the current definition of liabilities in FASB Concepts Statement No. 6, Elements of Financial Statements. The Company has implemented this pronouncement and has concluded that the adoption has no material impact to the financial statements.

In December 2003, the FASB issued a revised SFAS No. 132, "Employers' Disclosures about Pensions and Other Postretirement Benefits" which replaces the previously issued Statement. The revised Statement increases the existing disclosures for defined benefit pension plans and other defined benefit postretirement plans. However, it does not change the measurement or recognition of those plans as required under SFAS No. 87, "Employers' Accounting for Pensions," SFAS No. 88, "Employers' Accounting for Settlements and Curtailments of Defined Benefit Pension Plans and for Termination Benefits," and SFAS No. 106, "Employers' Accounting for Postretirement Benefits Other Than Pensions." Specifically, the revised Statement requires companies to provide additional disclosures about pension plan assets, benefit obligations, cash flows, and benefit costs of defined benefit pension plans and other defined benefit postretirement plans. Also, companies are required to provide a breakdown of plan assets by category, such as debt, equity and real estate, and to provide certain expected rates of return and target allocation percentages for these asset categories. The Company has implemented this pronouncement and has concluded that the adoption has no material impact to the financial statements.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002**

## (1) SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES, CONTINUED:

**RECENT ACCOUNTING PRONOUNCEMENTS, CONTINUED:**

In January 2003, the FASB issued Interpretation No. 46, "Consolidation of Variable Interest Entities." Interpretation 46 changes the criteria by which one company includes another entity in its consolidated financial statements. Previously, the criteria were based on control through voting interest. Interpretation 46 requires a variable interest entity to be consolidated by a company if that company is subject to a majority of the risk of loss from the variable interest entity's activities or entitled to receive a majority of the entity's residual returns or both. A company that consolidates a variable interest entity is called the primary beneficiary of that entity.

In December 2003 the FASB concluded to revise certain elements of FIN 46, which will be issued shortly. The FASB also modified the effective date of FIN 46. For all entities that were previously considered special purpose entities, FIN 46 should be applied in periods ending after December 15, 2003. Otherwise, FIN 46 is to be applied for registrants who file under Regulation S-X in periods ending after March 15, 2004, and for registrants who file under Regulation SB, in periods ending after December 15, 2003. The Company does not expect the adoption to have a material impact on the Company's financial position or results of operations.

## (2) PROPERTY AND EQUIPMENT:

Property and equipment consisted of the following:

	December 31, 2003
Office equipment	\$ 866
Computer equipment	23,277
Medical equipment	37,971
	<u>62,114</u>
Less accumulated depreciation	16,481
	<u>\$ 45,633</u>

Depreciation expense was \$10,641, \$4,172, and \$16,481 for the year ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003, respectively.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002****(3) PATENT RIGHTS:**

In June 2001, the Company received exclusive rights to four existing patents and one pending patent. At the date of exchange, the aggregate value of these rights was \$400,000. At December 31, 2003 and 2002, the accumulated amortization of these rights was \$75,856 and \$46,253, and the estimated remaining life was 8 years. Amortization expense was \$29,602, \$29,602, and \$75,856 for the years ended December 31, 2003 and 2002 and the period from August 23, 2000 (inception) to December 31, 2003, respectively.

Future estimated amortization expense is as follows:

Year ending December 31,		
2004	\$	29,602
2005		29,602
2006		29,602
2007		29,602
2008		29,602
Thereafter		176,135
		<hr/>
	\$	324,145
		<hr/>

In conjunction with the patents rights described above, the Company committed to the licensor to spend a total of \$1,760,000 in research and development expenses toward the development and promotion of products, commencing from the acquisition date until June 30, 2008.

Future remaining minimum payments under this agreement were as follows:

Year ending December 31,		
2004	\$	150,000
2005		200,000
2006		300,000
2007		400,000
2008		500,000
		<hr/>
	\$	1,550,000
		<hr/>

In the event the Company expends more than the minimum annual amount in any year, the excess may be carried over to the subsequent year. For the years ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003, the research and development costs incurred were \$436,849, \$431,199, and \$1,009,674, respectively. As of December 31, 2003, the Company had a \$799,674 as carryforward to apply to future years.

The Company is subject to paying royalty fees to the licensor, who is a shareholder, equal to 1.5% of the gross sales price of royalty bearing products. From year three to the tenth year of the license the royalty fee percent will phase out evenly to 0%. As of December 31, 2003 and 2002, the Company had not paid any royalty fees since it did not have any sales of royalty bearing products.





**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

**(4) DEFERRED EMPLOYEE LOAN-OUT COSTS:**

In June 2001, the Company received a commitment for the loan-out of certain employees over a two-year period in exchange for junior preferred stock (see note 8). The Company has deferred the estimated loan-out costs over the two-year period. The loan-out costs are expensed as the services are performed. At the date of the exchange, the cost of the employee loan-out over the two-year period was \$319,553.

In December 2001, the Company paid \$24,000 to purchase additional employee loan-out costs. For the years ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003, the amortized employee loan-out costs were \$88,889, \$171,776, and \$343,553, respectively.

**(5) CONVERTIBLE PROMISSORY NOTES:**

In September 2003, the Company issued units of convertible subordinated notes and warrants, consisting of convertible promissory notes (the "Notes") for an aggregate principal amount of \$400,000 and warrants for the purchase 300,000 shares of the Company's common stock at \$1 per share. The Notes bore interest at 7% per annum and were due on the earlier of March 31, 2004 or upon the occurrence of various other events or conditions set forth in the Notes. Under the terms of the Notes, the holders retained the right, subject to certain exceptions, to convert all or any part of the principal outstanding under the Notes into (i) shares of the Company's Common Stock at a conversion price per share equal to \$1 and (ii) warrants for the purchase of Company's common stock at \$2.50 per share. The conversion price was subject to adjustment in the event of a stock split, combination or like transaction. The warrant price was subject to adjustment in the event of a stock split, combination or like transaction.

The Company recorded the Notes net of a discount equal to the fair value allocated to the warrants issued of \$122,390. The Notes also contained a beneficial conversion feature, which resulted in additional debt discount of \$122,390. The beneficial conversion amount was measured using the accounting intrinsic value, i.e. the excess of the aggregate fair value of the common stock into which the debt is convertible over the proceeds allocated to the security.

In October 2003, the Notes were converted into 400,000 shares of common stock at \$1 per share. The Company recognized interest expense totaling \$224,401 for the unamortized warrants and beneficial conversion feature discount in accordance with Emerging Issues Task Force 00-27.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

(6) COMMITMENTS AND CONTINGENCIES:

**Commitments**

The Company leases office facilities and equipment under noncancellable operating leases, which require monthly payments of \$6,441 and expire in June 2004. The Company is required to pay for taxes, insurance, and maintenance. The Company is subleasing lab space for \$2,777 per month.

Rent expense was \$77,202, \$71,736, and \$187,080 for the years ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003, respectively.

**Agreements**

On December 26, 2001, the Company received the exclusive worldwide rights and license to use certain proprietary rights from Spectrum Laboratories, Inc. ("Spectrum") partially in exchange for 362,669 shares of common stock (see note 8). The license grants the Company the right to use Spectrum's technology and to exploit such rights to develop and distribute products solely for use in the Company's liver-assist devices.

In addition, the Company entered into a manufacturing and supply agreement with Spectrum. The agreement stipulates that the Company must contract with Spectrum for the manufacture and supply of certain products used in the liver-assist devices.

(7) STOCKHOLDERS' EQUITY:

**Preferred Stock**

The Company has 5,000,000 shares of preferred stock authorized. There are no shares of preferred stock issued or outstanding. The board of directors has the authority to set by resolution the particular designation, preferences and other special rights and qualification of preferred stock.

**Junior Preferred Stock**

In June 2001, Arbios Technologies, Inc. issued 681,818 shares of junior preferred stock, in exchange for \$250,000 in cash, exclusive rights to certain patents and one pending patent valued at \$400,000 (see Note 3), and future services of certain employees valued at \$319,553 (see Note 4).

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)**

**YEARS ENDED DECEMBER 31, 2003 AND 2002**

(7) STOCKHOLDERS' EQUITY, CONTINUED:

**Junior Preferred Stock (Continued)**

In October 2003, all issued and outstanding shares of the junior preferred stock were converted into 681,818 shares of common stock.

**Common Stock**

In August 2000, Arbios Technologies, Inc. issued 5,000,000 shares of common stock, \$0.001 par value, to the Company's two officers in exchange for \$5,000 in cash.

In December 2001, Arbios Technologies, Inc. issued 362,669 shares of common stock in exchange for future research costs valued at \$550,000, an exclusive license (see Note 8), a manufacturing and supply agreement (see Note 8), and exclusive rights to one patent and one pending patent.

In June 2002, Arbios Technologies, Inc. issued 70,000 shares of common stock to a Board member as compensation for services rendered valued at \$10,500.

In July 2002, Arbios Technologies, Inc. issued 999,111 shares of common stock to investors in exchange for \$149,866 in cash, or \$.15 per share.

In July 2002, Arbios Technologies, Inc. issued options to purchase 18,000 shares of common stock to each of its five Board members for services rendered. The options are exercisable at \$0.15 per share. The options vest 50% in six months and 50% in 12 months from the beginning date of service provided by the respective Board members.

In July 2002, Arbios Technologies, Inc. issued a warrant to purchase 100,000 shares of common stock to a Board member for services rendered to the Company. The warrant is exercisable at \$0.15 per share and has a 7-year life. The warrant also has conversion rights in lieu of payment of the exercise price and is not transferable.

In January 2003, Arbios Technologies, Inc. issued 417,000 shares of common stock and warrants to purchase 600,000 shares of common stock at an exercise price of \$1.00 per share to an investor in exchange for \$250,200 in cash. The Company recognized \$2,956 in stock issuance expense.

In September and October 2003, Arbios Technologies, Inc. issued 4,000,000 shares of common stock and warrants to purchase 4,000,000 shares of common stock at an exercise price of \$2.50 in exchange for \$4,000,000 in cash. The Company recognized \$519,230 in stock issuance expense.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002**

## (7) STOCKHOLDERS' EQUITY, CONTINUED:

**Common Stock (Continued)**

In September 2003, convertible promissory notes totaling \$400,000 were converted into 400,000 shares of Company's common stock.

In October 2003, Arbios Technologies, Inc. entered into a reorganization transaction wherein the shareholders of Systems retained 1,220,000 shares of the reorganized entity after the transaction. Since Systems was treated as the acquiree for accounting purposes, those shares were accounted for as being issued as of that date.

**Stock Option Plan**

In 2001, Systems adopted the 2001 Stock Option Plan (the "Company Plan") for the purpose of granting incentive stock options and/or non-statutory stock options to employees, consultants, directors and others. Under the Company Plan, the Company is authorized to grant options to purchase up to 1,000,000 shares. The Company Plan is administered by the Board of Directors of the Company or by a committee of the Board. However, in connection with the reorganization transaction between Systems and Arbios Technologies, Inc. in October 2003, Systems assumed all of the 314,000 outstanding options granted by Arbios Technologies, Inc. under its existing stock option plan and the options previously issued under that plan were cancelled. None of the terms of the assumed options were changed, the options assumed under the Company Plan are identical to the options that were previously granted under the Technologies Plan.

Transactions under the Plan during the year ended December 31, 2003 and 2002 are summarized as follows:

	Stock Option Plan	Weighted Average Exercise Price
Balance, December 31, 2001	--	\$ --
Granted	90,000	\$ 0.15
Canceled	--	\$ --
Balance, December 31, 2002	90,000	\$ 0.15
Granted	233,000	\$ 1.00
Canceled	9,000	\$ 0.15
Balance, December 31, 2003	<u>314,000</u>	<u>\$ 0.78</u>
Options exercisable, December 31, 2003	<u>194,000</u>	<u>\$ 0.61</u>



**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002**

## (7) STOCKHOLDERS' EQUITY, CONTINUED:

**Warrants:**

As of December 31, 2003, warrants to purchase 5,050,000 shares of common stock at prices ranging from \$0.15 to \$2.50 were outstanding.

All warrants are exercisable as of December 31, 2003 and expire at various dates through 2008.

## (8) RESEARCH COSTS:

On December 26, 2001, the Company received a commitment for research costs in the amount of \$550,000 from Spectrum Laboratories, Inc. ("Spectrum") partially in exchange for 362,669 shares of common stock (See Note 6). Spectrum was required to expend at least \$137,500 per year toward the development of the Company's liver-assist devices. The original agreement was to expire on November 30, 2005 and stipulated the following yearly minimum research costs expenditures by Spectrum:

Year ending December 31,		
2002	\$	148,958
2003		137,500
2004		137,500
2005		126,042
		550,000
	\$	550,000

In the event Spectrum expended more than the minimum annual amount in any year, the excess was carried over to the subsequent year. For the years ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003, the research and development costs incurred by Spectrum was \$0, respectively. The Company may repurchase a portion of the foregoing shares for nominal consideration if less than the specified amounts are expended by Spectrum.

In July 2002, the original agreement was amended. The Company and Spectrum agreed that, since the prototype system had been delivered early, all 362,669 shares issued to Spectrum on December 26, 2001, were deemed fully vested and any future obligations of \$550,000 research cost commitment was deemed fulfilled. In addition, any additional research and development work requested from Spectrum by the Company and the cost of such work will be negotiated in good faith before the work is initiated and that the Company will pay for such work in 36 monthly cash installments. Furthermore, the Company agreed that billings of \$109,360, through September 29, 2002, were due for research costs already provided, in lieu of the original \$550,000 obligation. This amount was reduced by \$54,400 in payment for the 362,669 shares previously received, and the Company shall pay the balance of \$54,960 to Spectrum in cash in monthly payments over an 18-month period starting November 1, 2002.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**

(A DEVELOPMENT STAGE COMPANY)

**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)****YEARS ENDED DECEMBER 31, 2003 AND 2002**

## (9) INCOME TAXES:

The actual tax benefits differ from the expected tax benefit computed by applying the United States federal corporate tax rate of 34% to loss before income taxes as follows for the years ended December 31, 2003 and 2002, and the period from August 23, 2000 (inception) to December 31, 2003:

	Year Ended December 31, 2003	Year Ended December 31, 2002	Period from August 23, 2000 (inception) to December 31, 2003
Expected tax benefit	\$ (301,136)	\$ (168,226)	\$ (553,562)
State income taxes, net of federal benefit	(49,767)	(28,867)	(76,191)
Other	--	(20,979)	(20,979)
	350,903		
Changes in valuation allowance	\$ --	\$ 218,072	650,732
	\$ --	\$ --	\$ --

The following table summarizes the significant components of the Company's deferred tax asset at December 31, 2003:

	December 31, 2003
Deferred tax asset arising from net operating loss carryforward	\$ 650,732
Less valuation allowance	(650,732)
Net deferred tax asset	\$ -

The Company recorded a valuation allowance of 100% for its net operating loss carryforward due to the uncertainty of its realization.

For the year ended December 31, 2003, the Company had an operating loss carryforward of approximately \$1,627,000, which begins expiring in 2016.

## (10) RELATED PARTY TRANSACTION:

In 2003, the son of a director received 7,500 shares of common stock valued at \$1 per share as a finder's fee.



**UNAUDITED  
FINANCIAL  
STATEMENTS**

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**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
**(A development stage company)**  
**CONDENSED CONSOLIDATED BALANCE SHEETS**

	March 31, 2004 (Unaudited)	December 31, 2003 (Audited)
Current assets		
Cash	\$ 3,147,084	\$ 3,507,086
Prepaid expenses	145,823	155,986
	<u>                    </u>	<u>                    </u>
Total current assets	\$ 3,292,907	\$ 3,663,072
Net property and equipment	42,541	45,633
Patent rights, net of accumulated amortization of \$83,256	316,744	324,145
Other assets	12,421	7,434
	<u>                    </u>	<u>                    </u>
Total assets	\$ 3,664,613	\$ 4,040,284
	<u>                    </u>	<u>                    </u>
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities		
Accounts payable and accrued expenses	\$ 75,227	\$ 148,229
Current portion of capitalized lease obligation	7,988	8,526
	<u>                    </u>	<u>                    </u>
Total current liabilities	\$ 83,215	\$ 156,755
Long-term liabilities		
Capital lease obligation, less current portion	4,591	6,826
Other liabilities	5,556	5,555
	<u>                    </u>	<u>                    </u>
Total Long-term liabilities	10,147	12,381
Stockholders' equity		
Preferred stock, \$.001 par value; 5,000,000 shares authorized; none issued and outstanding	--	--
Common stock, \$.001 par value; 25,000,000 shares authorized; 13,198,098 shares issued and outstanding	13,199	13,151
Additional paid-in capital	5,532,950	5,485,498
Deficit accumulated during the development stage	(1,974,898)	(1,627,501)
	<u>                    </u>	<u>                    </u>
Total stockholders' equity	3,571,251	3,871,148
	<u>                    </u>	<u>                    </u>
Total liabilities and stockholders' equity	\$ 3,664,613	\$ 4,040,284
	<u>                    </u>	<u>                    </u>

The accompanying notes are an integral part of these condensed consolidated financial statements.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
**(A development stage company)**  
**CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited)**

	<b>For the three months ended March 31,</b>		
	<b>2004</b>	<b>2003</b>	<b>Inception to March 31, 2004</b>
Revenues	\$ --	\$ 20,375	\$ 248,936
Operating expenses:			
General and administrative	229,215	36,354	846,454
Research and development	120,667	85,391	1,130,341
<b>Total operating expenses</b>	<b>349,882</b>	<b>121,745</b>	<b>1,976,795</b>
Loss before other income (expense)	(349,882)	(101,370)	(1,727,859)
Other income (expense):			
Interest	5,060	(400)	(238,097)
<b>Total other income (expense)</b>	<b>5,060</b>	<b>(400)</b>	<b>(238,097)</b>
Loss before tax provision	(344,822)	(101,770)	(1,965,956)
Provision for taxes	2,575	1,122	8,942
Net loss	\$ (347,397)	\$ (102,892)	\$(1,974,898)
Net earnings per share:			
Basic	\$ (0.03)	\$ (0.02)	\$ (0.30)
Diluted	\$ (0.03)	\$ (0.02)	\$ (0.30)
Weighted-average shares used to compute net earnings per share:			
Basic	13,191,422	6,719,047	6,582,070
Diluted	13,191,422	6,719,047	6,582,070

The accompanying notes are an integral part of these condensed consolidated financial statements.

**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
**(A development stage company)**  
**CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS**  
**(Unaudited)**

	For the three months ended March 31,		Inception to March 31, 2004
	2004	2003	
Cash flows from operating activities:			
Net loss	\$ (347,397)	\$(102,892)	\$(1,974,898)
Adjustments to reconcile net loss to net cash used in operating activities:			
Amortization of debt discount	--	--	244,795
Depreciation and amortization	10,493	9,463	102,830
Issuance of common stock for compensation	--	--	10,500
Issuance of common stock for payable	47,500	--	47,500
Settlement of accrued expense	--	--	54,401
Deferred compensation costs	--	--	319,553
Research and Development	--	42,945	--
Changes in operating assets and liabilities:			
Prepaid expenses	10,163	1,194	(145,825)
Other Assets	(4,987)	--	(12,421)
Accrued liabilities	(73,002)	(16,687)	75,228
Other	--	5,556	--
<b>Net cash used in operating activities</b>	<b>(357,230)</b>	<b>(65,977)</b>	<b>(1,272,781)</b>
Cash flows from investing activities:			
Additions of property and equipment	--	(5,746)	(37,115)
<b>Net cash used in investing activities</b>	<b>--</b>	<b>(5,746)</b>	<b>(37,115)</b>
Cash flows from financing activities:			
Proceeds from issuance of convertible debt	--	--	400,000
Proceeds from issuance of common stock	--	250,200	4,405,066
Proceeds from issuance of preferred stock	--	--	250,000
Payments on capital lease obligation, net	(2,772)	(1,936)	(12,420)
Cost of issuance of preferred stock	--	--	(11,268)
Cost of issuance of common stock	--	(2,957)	(574,398)
<b>Net cash provided by (used for) financing activities</b>	<b>(2,772)</b>	<b>245,307</b>	<b>4,456,980</b>
<b>Net increase (decrease) in cash</b>	<b>(360,002)</b>	<b>173,584</b>	<b>3,147,084</b>
Cash:			
At beginning of period	3,507,086	27,849	--
<b>At end of period</b>	<b>\$ 3,147,084</b>	<b>\$ 201,433</b>	<b>\$ 3,147,084</b>

The accompanying notes are an integral part of these condensed consolidated financial statements.



**ARBIOS SYSTEMS, INC. AND SUBSIDIARY**  
**(A DEVELOPMENT STAGE COMPANY)**  
**NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)**

**(1) BASIS OF PRESENTATION:**

In the opinion of the management of Arbios Systems, Inc. (the "Company"), the accompanying unaudited condensed consolidated financial statements include all normal adjustments considered necessary to present fairly the financial position as of March 31, 2004 and the results of operation and cash flows for the three month period ended March 31, 2004 and 2003.

The unaudited condensed consolidated financial statements and notes are presented as permitted by Form 10-QSB. These condensed financial statements have been prepared by the Company pursuant to the rules and regulations of the Securities and Exchange Commission (the "SEC"). Certain information and footnote disclosures, normally included in financial statements prepared in accordance with generally accepted accounting principles, have been omitted pursuant to such SEC rules and regulations. These financial statements should be read in conjunction with the Company's audited financial statements and the accompanying notes included in the Company's Form 10-KSB for the year ended December 31, 2003, filed with the SEC. The results of operations for the three month periods ended March 31, 2003 and March 31, 2004 are not necessarily indicative of the results to be expected for any subsequent quarter or for the entire fiscal year.

**(2) STOCK-BASED COMPENSATION:**

SFAS No. 123, "Accounting for Stock-Based Compensation," establishes and encourages the use of the fair value based method of accounting for stock-based compensation arrangements under which compensation cost is determined using the fair value of stock-based compensation determined as of the date of grant and is recognized over the periods in which the related services are rendered. The statement also permits companies to elect to continue using the current intrinsic value accounting method specified in Accounting Principles Board ("APB") Opinion No. 25, "Accounting for Stock Issued to Employees," to account for stock-based compensation. The Company has elected to use the intrinsic value based method and has disclosed the pro forma effect of using the fair value based method to account for its stock-based compensation issued to employees. For non-employee stock based compensation the Company recognizes an expense in accordance with SFAS No. 123 and values the equity securities based on the fair value of the services on the date of grant.

If the Company had elected to recognize compensation cost for its stock options and warrants based on the fair value at the grant dates, in accordance with SFAS 123, net earnings and earnings per share would have been as follows:

	<b>Three Months Ended March</b>	
	<b>2004</b>	<b>2003</b>
Net loss as reported	\$(347,397)	\$(102,892)
Compensation recognized under APB 25	--	--
Compensation recognized under SFAS 123	(18,146)	\$ (1,760)
Proforma	\$(365,543)	\$(104,652)
Basic and diluted loss per common share:		
As reported	\$ (0.03)	\$ (0.02)
Proforma	\$ (0.03)	\$ (0.02)

The fair value of each option is estimated on the date of grant using the Black Scholes option-pricing model. The following weighted-average assumptions were used in the Black Scholes option-pricing model; dividend yield nil, expected volatility 0.05%, risk free interest rate 3.0% and expected life ranging from 5 to 7 years.

**(3) SUBSEQUENT EVENTS:**

On April 1, 2004, the Company entered into a two-year agreement to lease an additional 1,700 square feet of office space for administrative purposes. The rent is approximately \$60,000 per year including taxes and other fees.

On April 19, 2004, the Company purchased certain assets of Circe Biomedical, Inc. including Circe's patent portfolio, rights to a bioartificial liver (HepatAssist)(TM), a Phase III Investigational New Drug application, selected equipment, clinical and marketing data, and over 400 standard operating procedures and clinical protocols previously reviewed by the Food and Drug Administration. In exchange for these assets, the Company paid a \$200,000 upfront payment and is committed to make a \$250,000 deferred payment due the earlier of April 12, 2006 or when the Company has raised accumulated gross proceeds of \$4 million from the issuance of debt or equity securities. The Company will expense the cost of the acquisition in the fiscal quarter ended June 30, 2004 as part of acquired research and development costs, as the underlying rights have not yet reached the stage at which their commercial feasibility can be established.

**PART II INFORMATION NOT REQUIRED IN PROSPECTUS****ITEM 24. INDEMNIFICATION OF DIRECTORS AND OFFICERS**

Our Articles of Incorporation provide that no officer or director shall be personally liable to this corporation or its shareholders for monetary damages for breach of fiduciary duty as a director or officer of this corporation. Our bylaws and Articles of Incorporation also provide that we shall, to the maximum extent and in the manner permitted by the Nevada Revised Statutes, indemnify each person who serves at any time as a director or officer of Arbios Systems, Inc. from and against any and all expenses, judgments, fines, settlements and other amounts actually and reasonable incurred in connection with any proceeding arising by reason of the fact that he is or was an agent of Arbios Systems, Inc.. We also have the power to defend such person from all suits or claims in accord with the Nevada Revised Statutes. The rights accruing to any person under our bylaws and Articles of Incorporation do not exclude any other right to which any such person may lawfully be entitled, and we may indemnify or reimburse such person in any proper case, even though not specifically provided for by the bylaws and Articles of Incorporation.

Insofar as indemnification for liabilities for damages arising under the Securities Act of 1933, (the Act ) may be permitted to our directors, officers, and controlling persons pursuant to the foregoing provision, or otherwise, we have been advised that in the opinion of the Security and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable.

**ITEM 25. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION**

We estimate that expenses in connection with the distribution described in this registration statement (other than brokerage commissions, discounts or other expenses relating to the sale of the shares by the selling stockholders) will be as set forth below. We will pay all of the expenses with respect to the distribution, and such amounts, with the exception of the Securities and Exchange Commission registration fee, are estimates.

SEC Registration Fee	\$ 5,448.04
Accounting fees and expenses	\$ 6,000
Legal fees and expenses	\$ 25,000
Printing and related expenses	1,000
Transfer agent fees and expenses	-0-
Miscellaneous	2,551.96
Total	\$ 40,000

**ITEM 26. RECENT SALES OF UNREGISTERED SECURITIES**

In June 2001, Arbios Technologies, Inc. sold 681,818 shares of its Junior Preferred Stock to Cedars-Sinai Medical Center for \$250,000. Concurrently and in connection with the foregoing issuance of Junior Preferred Stock, Cedars-Sinai Medical Center granted to Arbios Technologies, Inc. an exclusive, worldwide license to five patents and other technical information. The foregoing shares were sold pursuant to an exemption available under Section 4(2) of the Securities Act of 1933 (the Securities Act ) because the issuance did not involve any public offering.

In December 2001, Arbios Technologies, Inc. sold 362,669 shares of common stock to Spectrum Laboratories, Inc. In connection with the sale of the 362,669 shares of common stock, Arbios Technologies, Inc. and Spectrum Laboratories, Inc. entered into a License Agreement, a Research Agreement, and a Manufacturing and Supply Agreement. In addition, total amount of cash consideration paid by Spectrum Laboratories, Inc. for the shares is \$54,400. The foregoing shares were sold to Spectrum Laboratories, Inc. pursuant to an exemption available under Section 4(2) of the Securities Act.



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In August 2002, Arbios Technologies, Inc. sold 999,111 shares of common stock at a price of \$0.15 per share to six accredited investors. The foregoing securities were sold pursuant to an exemption available under Section 4(2) of the Securities Act.

In August 2002, Arbios Technologies, Inc. issued a warrant to purchase 100,000 shares of common stock to Technomedics Management and Systems, Inc. for services rendered to Arbios Technologies, Inc. The warrant enables the holder to purchase up to 100,000 shares of common stock at an exercise price of \$0.15 per share until August 18, 2009. The foregoing warrant was issued pursuant to an exemption available under Section 4(2) of the Securities Act.

In January 2003, Arbios Technologies, Inc. sold (i) 417,000 shares of common stock, and (ii) warrants to purchase 600,000 shares of common stock to one accredited investor for an aggregate purchase price of \$250,000. The warrants are exercisable through January 28, 2007 at a price of \$1.00 per share. The foregoing securities were sold pursuant to an exemption available under Section 4(2) of the Securities Act.

In September 2003, Arbios Technologies, Inc., sold 2,310,000 Units, at a price of \$1.00 per Unit, to a total of 41 investors. All investors were accredited investors. Each unit consisted of one share of Arbios Technologies, Inc.'s common stock and one common stock purchase warrant, that is exercisable at \$2.50 per share for a period of three years. The offering was effected pursuant to an exemption available under Section 4(2) of the Securities Act and Rule 506 promulgated thereunder. No underwriters were involved in the offering, although Arbios Technologies, Inc. did pay a placement agent fee to Spencer Edwards, Inc..

In October 2003, Arbios Technologies, Inc., sold 1,690,000 Units, at a price of \$1.00 per Unit, to a total of 24 investors. All investors were accredited investors. Each unit consisted of one share of Arbios Technologies, Inc.'s common stock and one common stock purchase warrant, that is exercisable at \$2.50 per share for a period of three years. The offering was effected pursuant to an exemption available under Section 4(2) of the Securities Act and Rule 506 promulgated thereunder.

In December, 2003, we issued to (i) Richard W. Bank 40,000 shares of common stock, and a warrant to purchase 40,000 additional shares of common stock at an exercise price of \$2.50 per share, and (ii) Adam Hausman 7,500 shares of common stock, and a warrant to purchase 7,500 additional shares of common stock at an exercise price of \$2.50 per share. The foregoing shares and warrants were issued as consideration for the services rendered by Dr. Bank and Mr. Hausman to Arbios Systems, Inc. Dr. Bank is a member of the Board of Directors of Arbios Systems, Inc., and Mr. Hausman is the son of Marvin S. Hausman, a member of the Board of Directors of Arbios Systems, Inc. The foregoing securities were sold pursuant to an exemption available under Section 4(2) of the Securities Act.

In connection with our acquisition of Arbios Technologies, Inc. by merger on October 30, 2003, Arbios Systems, Inc. issued 11,930,598 shares of our common stock to the 72 former stockholders of Arbios Technologies, Inc. in exchange for all of their shares of Arbios Technologies, Inc. All of the 72 former Arbios Technologies, Inc. stockholders were accredited investors. The shares were issued pursuant to an exemption available under Section 4(2) of the Securities Act.

In September 2003, we sold 16 units of convertible promissory notes and warrants (the Bridge Units), at a price of \$25,000 per Bridge Unit, to ten accredited investors. Each Bridge Unit consisted of (i) a \$25,000 principal amount convertible, subordinated promissory note of Arbios Technologies, Inc. and (ii) three-year warrants to purchase 18,750 shares of Arbios Technologies, Inc.'s common stock at an exercise price of \$1.00 per share. The notes bore interest at 7% per annum and, unless converted, were payable on March 31, 2004. In 2004, all ten holders of outstanding convertible promissory notes of Arbios Technologies, Inc. converted their notes, in accordance with the terms of those notes, into 400,000 shares of common stock, and warrants to purchase an additional 400,000 shares at an exercise price of \$2.50 per share.. The Bridge Units were issued pursuant to an exemption available under Section 4(2) of the Securities Act, and the issuance of the common stock and additional warrants upon the conversion of the notes was exempt pursuant to Section 3(a)(9) of the Securities Act. No commissions were paid, and no underwriter was involved in the sale of the Bridge Units or the conversion of the promissory notes.

Since the acquisition of Arbios Technologies, Inc., Arbios Systems, Inc. has issued options to purchase shares of common stock from time to time under 2003 Stock Option Plan. The stock option grants were exempt from registration pursuant to Section 4(2) of the Securities Act, since they were made to a small number of informed executive officers of the company or consultants who had access to all information relevant to their investment decisions. In addition, pursuant to the acquisition of Arbios Technologies, Inc., Arbios Systems, Inc. assumed all outstanding options under Arbios Technologies, Inc.'s Stock Option Plan (on the same terms and conditions as in effect prior to the merger), which were granted by Arbios Technologies, Inc. without registration pursuant to the exemption from registration available under Rule 701 under the Securities Act. Arbios Systems, Inc. plans to register under the Securities Act the offering of common stock pursuant to all options granted or which may be granted in the future under the 2003 Stock Option Plan (including the Arbios Technologies, Inc. options assumed in the acquisition).

On March 30, 2004, Arbios Systems, Inc. entered into a retainer agreement with Wolfe Axelrod Weinberger Associates LLC, an investor relations firm. Pursuant to that agreement, we granted to Wolfe Axelrod Weinberger Associates LLC a warrant to purchase 150,000 shares of our common stock at a price of \$3.40 per share. The shares were issued pursuant to an exemption available under Section 4(2) of the Securities Act.

**ITEM 27. EXHIBITS**

Exhibit Number	Description
2.1	Agreement and Plan of Reorganization, dated October 20, 2003, between the Registrant, Arbios Technologies, Inc., HAUSA Acquisition, Inc., Cindy Swank and Raymond Kuh (1)
3.1	Articles of Incorporation of Historical Autographs U.S.A., Inc.(2)
3.2	Certificate of Amendment of Articles of Incorporation (1)
3.3	Bylaws (2)
4.1	Revised form of Common Stock certificate(4)
4.2	Form of Warrant for the Purchase of Shares of Common Stock issued by the Registrant upon the assumption of the Arbios Technologies, Inc. outstanding Warrant(4)

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10.1	Form of 2001 Stock Option Plan (2)
10.2	Facilities Lease, entered into as of June 30, 2001, by and between Cedars-Sinai Medical Center and Arbios Technologies(4)
10.3	Standard Multi-Tenant Office Lease, dated as of February 13, 2004, by and between Beverly Robertson Design Plaza and Arbios Systems, Inc.(4)
10.4	Employee Loan-Out Agreement, entered into effective as of July 1, 2001, by and between Cedars-Sinai Medical Center and Arbios Technologies, Inc.(4)
10.5	Second Amendment to Employee Loan-Out Agreement, entered into effective as of May 7, 2003, by and between Cedars-Sinai Medical Center and Arbios Technologies, Inc.(4)
10.6	License Agreement, entered into as of June 2001, by and between Cedars-Sinai Medical Center and Arbios Technologies, Inc.(4)
10.7	Spectrum Labs License Agreement(4)
14.1	Arbios Systems, Inc. Code of Business Conduct and Ethics Adopted by the Board of Directors on January 15, 2004(4)
16.1	Letter on Change in Certifying Accountant (3)
21.1	List of Subsidiaries(4)
23.1	Consent of Stonefield Josephson, Inc., independent auditors
23.2	Consent of Troy & Gould Professional Corporation (reference is made to Exhibit 5.1)*
24.1	Power of Attorney (reference is made to signature page)

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\* To be filed by amendment

- (1) Previously filed as an exhibit to the Company's Current Report on Form 8-K on October 14, 2003, which exhibit is hereby incorporated herein by reference.
- (2) Previously filed as an exhibit to the Company's Registration Statement Form 10-SB filed April 26, 2001, which exhibit is hereby incorporated herein by reference.
- (3) Previously filed as an exhibit to the Company's Current Report on Form 8-K on January 30, 2004, which exhibit is hereby incorporated herein by reference.
- (4) Previously filed as an exhibit to the Company's Annual Report on Form 10-KSB on March 30, 2004, which exhibit is hereby incorporated herein by reference.

**ITEM 28. UNDERTAKINGS**

A. Rule 415 Offering

We hereby undertake:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933.

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement.

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

Provided, however, that paragraphs (1)(i) and (1)(ii) do not apply if the registration statement is on Form S-3 or Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed by the Company pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

B. Request for Acceleration of Effective Date

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Company pursuant to the foregoing provisions, or otherwise, the Company 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 Company of expenses incurred or paid by a director, officer or controlling person of the Company 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 Company 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**

In accordance with the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements of filing on Form SB-2 and authorized this registration statement to be signed on its behalf by the undersigned, in Los Angeles, California, on June 11, 2004.

**ARBIOS SYSTEMS, INC.**

Date: June 11, 2004

By: /s/ JACEK ROZGA, M.D., PH.D

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 Jacek Rozga, M.D., Ph.D,  
 President, and Chief Financial Officer

**POWER OF ATTORNEY**

The officers and directors of Arbios Systems, Inc., whose signatures appear below, hereby constitute and appoint Jacek Rozga, M.D., Ph.D and Scott Hayashi and each of them, their true and lawful attorneys and agents, each with power to act alone, to sign, execute and cause to be filed on behalf of the undersigned any amendment or amendments, including post-effective amendments, to this registration statement of Arbios Systems, Inc. on Form SB-2. Each of the undersigned does hereby ratify and confirm all that said attorneys and agents shall do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
_____	_____	_____
/s/ JACEK ROZGA, M.D., PH.D _____ Jacek Rozga, M.D., Ph.D	President (principal executive officer) and Chief Financial Officer (principal financial officer)	June 11, 2004
/s/ JOHN M. VIERLING, MD _____ John M. Vierling, MD	Chairman of the Board, and Director	June 11, 2004
/s/ KRISTIN P. DEMETRIOU _____ Kristin P. Demetriou	Director and Secretary	June 11, 2004
/s/ ROY EDDLEMAN _____ Roy Eddleman	Director	June 11, 2004
/s/ MARVIN S. HAUSMAN MD _____ Marvin S. Hausman MD	Director	June 11, 2004
/s/ RICHARD W. BANK MD _____ Richard W. Bank MD	Director	June 11, 2004



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