

NEPHROS INC  
Form S-1/A  
January 21, 2010

As filed with the Securities and Exchange Commission on January 21, 2010

Registration No. 333-162781

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SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D. C. 20549

Pre-Effective  
Amendment No. 3  
to  
FORM S-1  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933

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NEPHROS, INC.  
(Exact name of Registrant as specified in its charter)

Delaware  
(State or other jurisdiction of  
incorporation or organization)

3841  
(Primary Standard Industrial  
Classification Code Number)

13-3971809  
(I. R. S. Employer  
Identification No. )

41 Grand Avenue  
River Edge, New Jersey 07661  
(201) 343-5202  
(Address, including zip code, and telephone number,  
including area code, of registrant's principal executive offices)

Ernest Elgin III

President and Chief Executive Officer  
Nephros, Inc.  
41 Grand Avenue  
River Edge, New Jersey 07661  
(201) 343-5202  
(Name, address, including zip code, and telephone number,  
including area code, of agent for service)

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Copies to:

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Approximate date of commencement of proposed sale to the public: As promptly as practicable after this registration statement becomes effective and the satisfaction or waiver of certain other conditions described herein.

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

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, 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.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer   
Non-accelerated filer  (Do not check if smaller reporting company) Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered(1)	Proposed maximum aggregate offering price per unit(2)	Proposed maximum aggregate offering price	Amount of registration fee(3)
Common stock, \$0.001 par value per share	2,352,941	\$ 0.765	\$ 1,800,000	\$ 100

(1) Pursuant to Rule 416 under the Securities Act, the shares being registered hereunder include such indeterminate number of shares of common stock as may be issuable with respect to the shares being registered hereunder as a result of stock splits, stock dividends or similar transaction.

- (2) Estimated solely for the purpose of calculating the registration fee, based upon the average of the bid and asked prices of our common stock on the Over-the-Counter Bulletin Board on December 22, 2009, in accordance with Rule 457.
- (3) Paid previously.

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.

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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 or the solicitation of an offer to buy these securities in any state in which such offer, solicitation or sale is not permitted.

SUBJECT TO COMPLETION — DATED January 21, 2010

PROSPECTUS

2,352,941 Shares  
Common Stock

We are offering 2,352,941 shares of our common stock, \$0.001 par value, at a fixed price per share equal to \$\_\_\_\_. We will conduct one closing for the sale of our common stock. Proceeds that we receive from the offering of shares will not be placed into escrow.

There is no minimum number of shares that we must sell in this offering. As a result, the actual amount of gross proceeds from the sale of shares, if any, might not be sufficient to cover the expenses of the offering.

The offering will run for 15 business days from the date of this prospectus.

We are offering the shares on our own. There will be no underwriter, sales agent or other third party involved in the sale of the shares. We will offer the shares through our officers and directors who will not be paid any commission for such sales. We will pay all expenses incurred in this offering.

Our shares of common stock are quoted on the Over-the-Counter Bulletin Board under the symbol "NEPH.OB." On January 20, 2010, the last reported sale price of our common stock on the Over-the-Counter Bulletin Board was \$0.91 per share.

Investing in our securities involves a high degree of risk. These risks are discussed in this prospectus under "Risk Factors" beginning on page 5 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is [ ], 2010.

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OLpur™ and H2H™ are among our trademarks for which U.S. registrations are pending. H2H is a registered European Union trademark. We have assumed that the reader understands that these terms are source-indicating. Accordingly, such terms appear throughout the remainder of this prospectus without trademark notices for convenience only and should not be construed as being used in a descriptive or generic sense.

Unless the context otherwise requires, “Nephros,” “the company,” “we,” “us,” “our” and similar names refer to Nephros, Inc. and our subsidiary, Nephros International Limited.

## PROSPECTUS SUMMARY

This summary highlights information contained in other parts of this prospectus. Because it is a summary, it does not contain all of the information that is important to you. You should carefully read the more detailed information contained in this prospectus, including the section entitled “Risk Factors” beginning on page 5 and our financial statements for the years ended December 31, 2007 and 2008, and the quarter ended September 30, 2009, and related notes, included herein. We refer to Nephros, Inc. and its consolidated subsidiary as “Nephros”, the “Company”, “we”, “our”, and “us”.

### About the Company

We are a medical device company developing and marketing filtration products for therapeutic applications, infection control, and water purification.

Our hemodiafiltration, or HDF, system is designed to improve the quality of life for the End-Stage Renal Disease, or ESRD, patient while addressing the critical financial and clinical needs of the care provider. ESRD is a disease state characterized by the irreversible loss of kidney function. The Nephros HDF system removes a range of harmful substances more effectively, and with greater capacity, than existing ESRD treatment methods, particularly with respect to substances known collectively as “middle molecules.” These molecules have been found to contribute to such conditions as dialysis-related amyloidosis, carpal tunnel syndrome, degenerative bone disease and, ultimately, mortality in the ESRD patient. Nephros ESRD products are sold and distributed throughout Europe and are currently being used in over 50 clinics in Europe.

We currently have three HDF products in various stages of development to deliver improved therapy to ESRD patients:

- OLpur MDHDF filter series (which we sell in various countries in Europe and currently consists of our MD190 and MD220 diafilters), which is, to our knowledge, the only filter designed expressly for HDF therapy and employing our proprietary Mid-Dilution Diafiltration technology;
- OLpur H2H, our add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy; and
  - OLpur NS2000 system, our stand-alone HDF machine and associated filter technology.

We have also developed our OLpur HD 190 high-flux dialyzer cartridge, which incorporates the same materials as our OLpur MD series, but does not employ our proprietary Mid-Dilution Diafiltration technology. Our OLpur HD190 was designed for use with either hemodialysis or hemodiafiltration machines, and received its approval in June 2005 from the U.S. Food and Drug Administration, or FDA, under Section 510(k) of the Food, Drug and Cosmetic Act, or the FDC Act.

We believe that products in our OLpur MDHDF filter series are more effective than any products currently available for ESRD therapy because they are better at removing certain larger toxins (known in the industry as “middle molecules” because of their heavier molecular weight) from blood. The accumulation of middle molecules in the blood has been related to such conditions as malnutrition, impaired cardiac function, carpal tunnel syndrome, and degenerative bone disease in the ESRD patient. We also believe that OLpur H2H will, upon introduction, expand the use of HDF as a cost-effective and attractive alternative for ESRD therapy, and that, if approved in 2009, our OLpur H2H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

We submitted a 501(k) application for our OLpur H2H hemodiafiltration module and OLpur MD220 hemodiafilter to the FDA in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. Per FDA guidelines, the FDA generally reviews additional information within 90 days. As of the date of this prospectus, we have not received a response from the FDA.

We believe that our products will reduce hospitalization, medication and care costs as well as improve patient health (including reduced drug requirements and improved blood pressure profiles), and therefore, quality of life, by removing a broad range of toxins through a more patient-friendly, better-tolerated process. In addition, independent studies in Europe have indicated that, when compared with dialysis as it is currently offered in the United States, HDF can reduce the patient's mortality risk by up to 35%. We believe that the OLpur MDHDF filter series and the OLpur H2H will provide these benefits to ESRD patients at competitive costs and without the need for ESRD treatment providers to make significant capital expenditures in order to use our products. We also believe that the OLpur NS2000 system, if successfully developed, will be the most cost-effective stand-alone hemodiafiltration system available.

In January 2006, we introduced our new Dual Stage Ultrafilter, or DSU, water filtration system. Our DSU represents a new and complementary product line to our existing ESRD therapy business. The DSU incorporates our unique and proprietary dual stage filter architecture and is, to our knowledge, the only water filter that allows the user to sight-verify that the filter is properly performing its cleansing function. Our research and development work on the OLpur H2H and MD Mid-Dilution filter technologies for ESRD therapy provided the foundation for a proprietary multi-stage water filter that we believe is cost effective, extremely reliable, and long-lasting. We believe our DSU can offer a robust solution to a broad range of contaminated water and disease prevention issues. Hospitals are particularly stringent in their water quality requirements; transplant patients and other individuals whose immune systems are compromised can face a substantial infection risk in drinking or bathing with standard tap water that would generally not present a danger to individuals with normal immune function. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. With over 5,000 registered hospitals in the United States alone (as reported by the American Hospital Association in Fast Facts of October 20, 2006), we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. On July 1, 2009, the FDA approved the DSU to be used to filter biological contaminants from water and dialysate concentrate used in hemodialysis procedures.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we are developing a personal potable water purification system for use by soldiers. Work on this project commenced in January 2008 and we billed \$196,000 during the year ended December 31, 2008. In December 2007, the U.S. Department of Defense Appropriations Act appropriated an additional \$2 million to continue the development of a dual stage ultra reliable personal water filtration system. In August 2009, we were awarded a new \$2 million research contract from the Office of Naval Research, or ONR, for development of a potable dual-stage military water purifying filter. The research contract was an expansion of our current ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of the Nephros ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded ONR contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We believe that the military product development efforts will have broad consumer applications as well and have begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.





### Recent Developments

On July 24, 2009, we raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of our common stock and warrants to purchase an aggregate of 672,581 shares of our common stock, representing 50% of the shares of common stock purchased by each investor. We sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014. Each investor agreed that it will not sell, pledge, sell short or otherwise dispose of any of the purchased shares until January 31, 2010. The proceeds from the private placement are being used for ongoing operations and other general corporate purposes, including the launch of our recently FDA-approved Dual Stage Ultrafilters and, if approved by the FDA, the preparation to launch our OLpur MD220 Dialyzers and H2H Hemodiafiltration Module in the United States.

### Corporate Information

We are incorporated in Delaware and our principal executive offices are located at 41 Grand Avenue, River Edge, New Jersey 07661. Our telephone number is (201) 343-5202 and our website address is [www.nephros.com](http://www.nephros.com). Information contained in, or accessible through, our website does not constitute part of this prospectus.

The Offering

Securities Offered: We are offering 2,352,941 shares of our common stock, \$0.001 par value.

Offering Price: The offering price per share is \$\_\_\_\_.

Use of Proceeds: We intend to use the net proceeds from this offering for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of the net proceeds, we intend to invest the net proceeds generally in short-term, investment grade, interest bearing securities.

Manner of offering: We are offering the shares on our own. There will be no underwriter, sales agent or other third party involved in the sale of the shares. We will offer the shares through our officers and directors who will not be paid any commission for such sales.

We will conduct one closing for the sale of our common stock. We estimate the expenses of the offering to be \$55,000.

There is no minimum number of shares that we must sell in this offering. As a result, the actual amount of gross proceeds from the sale of shares, if any, might not be sufficient to cover the expenses of the offering.

The offering price will be negotiated by us with prospective purchasers. Each purchaser will pay the same price to purchase stock in this offering.

The offering will run for 15 business days from the date of this prospectus.

Over-the-Counter Bulletin Board stock NEPH.OB  
symbol:

Risk Factors: This investment involves a high degree of risk. See "Risk Factors" beginning on page 5 of this prospectus.

Number of shares outstanding before the offering: 41,604,798 shares. Does not include 1,506,712 shares issuable upon the exercise of stock options or 8,191,827 shares issuable upon the exercise of warrants outstanding on September 30, 2009 (which number will increase to 8,626,334 shares after giving effect to this offering due to anti-dilution provisions applicable to certain warrants in the event that the offering price is less than \$0.90).

Number of shares outstanding after the offering: 43,957,739 shares, assuming all shares are sold.

Proceeds to us from this offering: \$\_\_\_\_\_, without deducting any offering expenses.

Where you can find more information: If you have any questions relating to this prospectus, you should contact:

Ernest Elgin  
President and Chief Executive Officer  
Nephros, Inc.  
41 Grand Avenue  
River Edge, New Jersey 07661  
(201) 343-5202

## RISK FACTORS

An investment in shares of our common stock involves a high degree of risk. You should consider carefully the following information about these risks, together with the other information contained in this prospectus, before you decide whether to buy our common stock. The occurrence of any of the following risks could have a material adverse effect on our business, financial condition and results of operations.

### Risks Related to Our Company

Our independent registered public accountants, in their audit report related to our financial statements for the year ended December 31, 2008, expressed substantial doubt about our ability to continue as a going concern.

Our independent registered public accounting firm has included an explanatory paragraph in their report on our financial statements included in our Annual Report on Form 10-K for the period ended December 31, 2008, expressing doubt as to our ability to continue as a going concern. The financial statements included in our Form 10-K were prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations, raises substantial doubt about our ability to continue as a going concern, and our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. Based on our current cash flow projections, we will need to raise additional funds through either the licensing or sale of our technologies or the additional public or private offerings of our securities. However, there is no guarantee that we will be able to obtain further financing, or do so on reasonable terms. If we are unable to raise additional funds on a timely basis, or at all, we would be materially adversely affected.

We might require additional financing to fund operations or potential acquisitions. If financing is not available, we might not be able to grow as we plan.

At September 30, 2009, we had cash, cash equivalents and short-term investments totaling approximately \$1,795,000 and tangible assets of approximately \$3,279,000. In the future, we might be required to seek additional financing to fund operations or potential acquisition opportunities. Despite our recent private placement from which we raised gross proceeds of \$1,251,000, as described above under “Prospectus Summary - Recent Developments,” the recent downturn in the capital markets and the general economic slowdown could prevent us from raising additional capital or obtaining additional financing on favorable terms, if at all. If we cannot raise sufficient capital, our ability to operate and to grow through acquisitions or otherwise respond to competitive pressures would be significantly limited.

We have a history of operating losses and a significant accumulated deficit, and we may not achieve or maintain profitability in the future.

We have not been profitable since our inception in 1997. As of September 30, 2009, we had an accumulated deficit of \$89,492,000 primarily as a result of our research and development expenses and selling, general and administrative expenses and non-cash expenses related to converted bonds in 2007. We expect to continue to incur additional losses for the foreseeable future as a result of a high level of operating expenses, significant up-front expenditures including the cost of clinical trials, production and marketing activities and very limited revenue from the sale of our products. We began sales of our first product in March 2004, and we may never realize sufficient revenues from the sale of our products or be profitable. Each of the following factors, among others, may influence the timing and extent of our profitability, if any:

- the completion and success of additional clinical trials and of our regulatory approval processes for each of our ESRD therapy products in our target territories;

- the market acceptance of HDF therapy in the United States and of our technologies and products in each of our target markets;

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- our ability to effectively and efficiently manufacture, market and distribute our products;
- our ability to sell our products at competitive prices which exceed our per unit costs; and
- the consolidation of dialysis clinics into larger clinical groups.

We have limited experience selling our DSU water filtration system to dialysis clinics, and we might be unsuccessful in increasing our sales.

Our business strategy depends in part on our ability to sell our DSU water filtration system to hospitals and other healthcare facilities that include dialysis clinics. On July 1, 2009, we received approval from the FDA to market our DSU to dialysis clinics. If we are unsuccessful at manufacturing, marketing and selling our DSU, our operations and potential revenues might be adversely affected.

Certain customers individually account for a large portion of our product sales, and the loss of any of these customers could have a material adverse effect on our sales.

For the year ended December 31, 2008, one of our customers accounted for 78% of our product sales. Also, this customer represented 66% of our accounts receivable as of December 31, 2008. We believe that the loss of this customer would have a material adverse effect on our product sales, at least temporarily, while we seek to replace such customer and/or self-distribute in the territories currently served by such customer.

We cannot sell our ESRD therapy products, including certain modifications thereto, until we obtain the requisite regulatory approvals and clearances in the countries in which we intend to sell our products. We have not obtained FDA approval for any of our ESRD therapy products, except for our HD190 filter, and cannot sell any of our other ESRD therapy products in the United States unless and until we obtain such approval. If we fail to receive, or experience a significant delay in receiving, such approvals and clearances then we may not be able to get our products to market and enhance our revenues.

Our business strategy depends in part on our ability to get our products into the market as quickly as possible. We obtained the Conformité Européene, or CE, mark, which demonstrates compliance with the relevant European Union requirements and is a regulatory prerequisite for selling our products in the European Union and certain other countries that recognize CE marking (collectively, "European Community"), for our OLpur MDHDF filter series product in 2003 and received CE marking in November 2006 for our water filtration product, the Dual Stage Ultrafilter, or DSU. We have not yet obtained the CE mark for any of our other products. Similarly, we cannot sell our ESRD therapy products in the United States until we receive FDA clearance. Although we received approval of our Investigational Device Exemption in March 2007 to begin clinical trials in the United States, until we complete the requisite U.S. human clinical trials and submit pre-market notification to the FDA pursuant to Section 510(k) of the Food, Drug and Cosmetic Act, or FDC Act, or otherwise comply with FDA requirements for a 510(k) approval, we will not be eligible for FDA approval for any of our products, except for our HD190 filter.

In addition to the pre-market notification required pursuant to Section 510(k) of the FDC Act, the FDA could require us to obtain pre-market approval of our ESRD therapy products under Section 515 of the FDC Act, either because of legislative or regulatory changes or because the FDA does not agree with our determination that we are eligible to use the Section 510(k) pre-market notification process. The Section 515 pre-market approval process is a significantly more costly, lengthy and uncertain approval process and could materially delay our products coming to market. If we do obtain clearance for marketing of any of our devices under Section 510(k) of the FDC Act, then any changes we wish to make to such device that could significantly affect safety and effectiveness will require clearance of a notification pursuant to Section 510(k), and we may need to submit clinical and manufacturing comparability data to

obtain such approval or clearance. We could not market any such modified device until we received FDA clearance or approval. We cannot guarantee that the FDA would timely, if at all, clear or approve any modified product for which Section 510(k) is applicable. Failure to obtain timely clearance or approval for changes to marketed products would impair our ability to sell such products and generate revenues in the United States.



The clearance and/or approval processes in the European Community and in the United States can be lengthy and uncertain, and each requires substantial commitments of our financial resources and our management's time and effort. We may not be able to obtain further CE marking or any FDA approval for any of our ESRD therapy products in a timely manner or at all. Even if we do obtain regulatory approval, approval may be only for limited uses with specific classes of patients, processes or other devices. Our failure to obtain, or delays in obtaining, the necessary regulatory clearance and/or approvals with respect to the European Community or the United States would prevent us from selling our affected products in these regions. If we cannot sell some of our products in these regions, or if we are delayed in selling while awaiting the necessary clearance and/or approvals, our ability to generate revenues from these products will be limited.

If we are successful in our initial marketing efforts in some or all of our Target European Market (consisting of France, Germany, Ireland, Italy and the United Kingdom (U.K.), as well as Cyprus, Denmark, Greece, the Netherlands, Norway, Portugal, Spain, Sweden and Switzerland) and the United States, then we plan to market our ESRD therapy products in several countries outside of our Target European Market and the United States, including Korea, China, Canada and Mexico. Requirements pertaining to the sale of medical devices vary widely from country to country. It may be very expensive and difficult for us to meet the requirements for the sale of our ESRD therapy products in many of these countries. As a result, we may not be able to obtain the required approvals in a timely manner, if at all. If we cannot sell our ESRD therapy products outside of our Target European Market and the United States, then the size of our potential market could be reduced, which would limit our potential sales and revenues.

Clinical studies required for our ESRD therapy products are costly and time-consuming, and their outcome is uncertain.

Before obtaining regulatory approvals for the commercial sale of any of our ESRD therapy products in the United States and elsewhere, we must demonstrate through clinical studies that our products are safe and effective. We received conditional approval for our IDE application from the FDA to begin human clinical trials of our OLpur H2H hemodiafiltration module and OLpur MD220 hemodiafilter. We were granted this approval on the condition that, by March 5, 2007, we submit a response to two informational questions from the FDA. We have responded to these questions. We obtained approval from Western IRB, Inc., which enabled us to proceed with our clinical trial. We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We submitted our data to the FDA in November 2008 with our 510(k) application for these products. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. Per FDA guidelines, the FDA generally reviews additional information within 90 days. As of the date of this prospectus, we have not received a response from the FDA.

For products other than those for which we have already received marketing approval, if we do not prove in clinical trials that our ESRD therapy products are safe and effective, we will not obtain marketing approvals from the FDA and other applicable regulatory authorities. In particular, one or more of our ESRD therapy products may not exhibit the expected medical benefits, may cause harmful side effects, may not be effective in treating dialysis patients or may have other unexpected characteristics that preclude regulatory approval for any or all indications of use or limit commercial use if approved. The length of time necessary to complete clinical trials varies significantly and is difficult to predict. Factors that can cause delay or termination of our clinical trials include:

- slower than expected patient enrollment due to the nature of the protocol, the proximity of subjects to clinical sites, the eligibility criteria for the study, competition with clinical trials for similar devices or other factors;
- lower than expected retention rates of subjects in a clinical trial;
- inadequately trained or insufficient personnel at the study site to assist in overseeing and monitoring clinical trials;

- delays in approvals from a study site's review board, or other required approvals;

- longer treatment time required to demonstrate effectiveness;
- lack of sufficient supplies of the ESRD therapy product;
- adverse medical events or side effects in treated subjects; and
- lack of effectiveness of the ESRD therapy product being tested.

Even if we obtain positive results from clinical studies for our products, we may not achieve the same success in future studies of such products. Data obtained from clinical studies are susceptible to varying interpretations that could delay, limit or prevent regulatory approval. In addition, we may encounter delays or rejections based upon changes in FDA policy for device approval during the period of product development and FDA regulatory review of each submitted new device application. We may encounter similar delays in foreign countries. Moreover, regulatory approval may entail limitations on the indicated uses of the device. Failure to obtain requisite governmental approvals or failure to obtain approvals of the scope requested will delay or preclude our licensees or marketing partners from marketing our products or limit the commercial use of such products and will have a material adverse effect on our business, financial condition and results of operations.

In addition, some or all of the clinical trials we undertake may not demonstrate sufficient safety and efficacy to obtain the requisite regulatory approvals, which could prevent or delay the creation of marketable products. Our product development costs will increase if we have delays in testing or approvals, if we need to perform more, larger or different clinical trials than planned or if our trials are not successful. Delays in our clinical trials may harm our financial results and the commercial prospects for our products. Additionally, we may be unable to complete our clinical trials if we are unable to obtain additional capital.

We may be required to design and conduct additional clinical trials.

We may be required to design and conduct additional clinical trials to further demonstrate the safety and efficacy of our ESRD therapy product, which may result in significant expense and delay. The FDA and foreign regulatory authorities may require new or additional clinical trials because of inconclusive results from current or earlier clinical trials, a possible failure to conduct clinical trials in complete adherence to FDA good clinical practice standards and similar standards of foreign regulatory authorities, the identification of new clinical trial endpoints, or the need for additional data regarding the safety or efficacy of our ESRD therapy products. It is possible that the FDA or foreign regulatory authorities may not ultimately approve our products for commercial sale in any jurisdiction, even if we believe future clinical results are positive.

We cannot assure you that our ESRD therapy products will be safe, and we are required under applicable law to report any product-related deaths or serious injuries or product malfunctions that could result in deaths or serious injuries, and such reports could trigger recalls, class action lawsuits and other events that could cause us to incur expenses and may also limit our ability to generate revenues from such products.

We cannot assure you that our ESRD therapy products will be safe. Under the FDC Act, we are required to submit medical device reports, or MDRs, to the FDA to report device-related deaths, serious injuries and product malfunctions that could result in death or serious injury if they were to recur. Depending on their significance, MDRs could trigger events that could cause us to incur expenses and may also limit our ability to generate revenues from such products, such as the following:

- information contained in the MDRs could trigger FDA regulatory actions such as inspections, recalls and patient/physician notifications;

- because the reports are publicly available, MDRs could become the basis for private lawsuits, including class actions; and
  - if we fail to submit a required MDR to the FDA, the FDA could take enforcement action against us.

If any of these events occur, then we could incur significant expenses, and it could become more difficult for us to gain market acceptance of our ESRD therapy products and to generate revenues from sales. Other countries may impose analogous reporting requirements that could cause us to incur expenses and may also limit our ability to generate revenues from sales of our ESRD therapy products.

Product liability associated with the production, marketing and sale of our products, and/or the expense of defending against claims of product liability, could materially deplete our assets and generate negative publicity which could impair our reputation.

The production, marketing and sale of kidney dialysis and water-filtration products have inherent risks of liability in the event of product failure or claim of harm caused by product operation. Furthermore, even meritless claims of product liability may be costly to defend against. Although we have acquired product liability insurance in the amount of \$5,000,000 for our products, we may not be able to maintain or obtain this insurance on acceptable terms or at all. Because we may not be able to obtain insurance that provides us with adequate protection against all potential product liability claims, a successful claim in excess of our insurance coverage could materially deplete our assets. Moreover, even if we are able to obtain adequate insurance, any claim against us could generate negative publicity, which could impair our reputation and adversely affect the demand for our products, our ability to generate sales and our profitability.

Some of the agreements that we may enter into with manufacturers of our products and components of our products may require us:

- to obtain product liability insurance; or
- to indemnify manufacturers against liabilities resulting from the sale of our products.

For example, the agreement with our contract manufacturer, or CM, requires that we obtain and maintain certain minimum product liability insurance coverage and that we indemnify our CM against certain liabilities arising out of our products that they manufacture, provided they do not arise out of our CM's breach of the agreement, negligence or willful misconduct. If we are not able to obtain and maintain adequate product liability insurance, then we could be in breach of these agreements, which could materially adversely affect our ability to produce our products and generate revenues. Even if we are able to obtain and maintain product liability insurance, if a successful claim in excess of our insurance coverage is made, then we may have to indemnify some or all of our manufacturers for their losses, which could materially deplete our assets.

If we violate any provisions of the FDC Act or any other statutes or regulations, then we could be subject to enforcement actions by the FDA or other governmental agencies.

We face a significant compliance burden under the FDC Act and other applicable statutes and regulations which govern the testing, labeling, storage, record keeping, distribution, sale, marketing, advertising and promotion of our ESRD therapy products. If we violate the FDC Act or other regulatory requirements at any time during or after the product development and/or approval process, we could be subject to enforcement actions by the FDA or other agencies, including:

- fines;
- injunctions;
- civil penalties;

- recalls or seizures of products;
- total or partial suspension of the production of our products;
- withdrawal of any existing approvals or pre-market clearances of our products;

- refusal to approve or clear new applications or notices relating to our products;
- recommendations by the FDA that we not be allowed to enter into government contracts; and
  - criminal prosecution.

Any of the above could have a material adverse effect on our business, financial condition and results of operations.

Significant additional governmental regulation could subject us to unanticipated delays which would adversely affect our sales and revenues.

Our business strategy depends in part on our ability to get our products into the market as quickly as possible. Additional laws and regulations, or changes to existing laws and regulations that are applicable to our business may be enacted or promulgated, and the interpretation, application or enforcement of the existing laws and regulations may change. We cannot predict the nature of any future laws, regulations, interpretations, applications or enforcements or the specific effects any of these might have on our business. Any future laws, regulations, interpretations, applications or enforcements could delay or prevent regulatory approval or clearance of our products and our ability to market our products. Moreover, changes that result in our failure to comply with the requirements of applicable laws and regulations could result in the types of enforcement actions by the FDA and/or other agencies as described above, all of which could impair our ability to have manufactured and to sell the affected products.

Access to the appropriations from the U.S. Department of Defense regarding the development of a dual-stage water ultrafilter could be subject to unanticipated delays or non-renewal which could adversely affect our potential revenues.

Our business strategy with respect to our DSU products depends in part on the successful development of DSU products for use by the military. Beginning in January 2008, we have contracted with the U.S. Office of Naval Research to develop a personal potable water purification system for warfighters under a first contract in an amount not to exceed \$866,000. In August 2009, we entered into a second contract with a value not to exceed \$2 million. These contracts would utilize the Federal appropriations from the U.S. Department of Defense in an aggregate amount of \$3 million that have been approved for this purpose. If there are unanticipated delays in receiving the appropriations from the U.S. Department of Defense, our operations and potential revenues may be adversely affected. Further, if we do not successfully complete the contract work or renew the contract work in the event that the research and development needs additional work to reach completion, our operations and potential revenues may be adversely affected.

Protecting our intellectual property in our technology through patents may be costly and ineffective. If we are not able to adequately secure or enforce protection of our intellectual property, then we may not be able to compete effectively and we may not be profitable.

Our future success depends in part on our ability to protect the intellectual property for our technology through patents. We will only be able to protect our products and methods from unauthorized use by third parties to the extent that our products and methods are covered by valid and enforceable patents or are effectively maintained as trade secrets. Our 13 granted U.S. patents will expire at various times from 2018 to 2022, assuming they are properly maintained.

The protection provided by our patents, and patent applications if issued, may not be broad enough to prevent competitors from introducing similar products into the market. Our patents, if challenged or if we attempt to enforce them, may not necessarily be upheld by the courts of any jurisdiction. Numerous publications may have been disclosed by, and numerous patents may have been issued to, our competitors and others relating to methods and

devices for dialysis of which we are not aware, and additional patents relating to methods and devices for dialysis may be issued to our competitors and others in the future. If any of those publications or patents conflict with our patent rights, or cover our products, then any or all of our patent applications could be rejected and any or all of our granted patents could be invalidated, either of which could materially adversely affect our competitive position.



Litigation and other proceedings relating to patent matters, whether initiated by us or a third party, can be expensive and time-consuming, regardless of whether the outcome is favorable to us, and may require the diversion of substantial financial, managerial and other resources. An adverse outcome could subject us to significant liabilities to third parties or require us to cease any related development, product sales or commercialization activities. In addition, if patents that contain dominating or conflicting claims have been or are subsequently issued to others and the claims of these patents are ultimately determined to be valid, then we may be required to obtain licenses under patents of others in order to develop, manufacture, use, import and/or sell our products. We may not be able to obtain licenses under any of these patents on terms acceptable to us, if at all. If we do not obtain these licenses, we could encounter delays in, or be prevented entirely from using, importing, developing, manufacturing, offering or selling any products or practicing any methods, or delivering any services requiring such licenses.

If we file patent applications or obtain patents in foreign countries, we will be subject to laws and procedures that differ from those in the United States. Such differences could create additional uncertainty about the level and extent of our patent protection. Moreover, patent protection in foreign countries may be different from patent protection under U.S. laws and may not be as favorable to us. Many non-U.S. jurisdictions, for example, prohibit patent claims covering methods of medical treatment of humans, although this prohibition may not include devices used for such treatment.

If we are not able to secure and enforce protection of our trade secrets through enforcement of our confidentiality and non-competition agreements, then our competitors may gain access to our trade secrets, we may not be able to compete effectively and we may not be profitable. Such protection may be costly and ineffective.

We attempt to protect our trade secrets, including the processes, concepts, ideas and documentation associated with our technologies, through the use of confidentiality agreements and non-competition agreements with our current employees and with other parties to whom we have divulged such trade secrets. If these employees or other parties breach our confidentiality agreements and non-competition agreements or if these agreements are not sufficient to protect our technology or are found to be unenforceable, then our competitors could acquire and use information that we consider to be our trade secrets and we may not be able to compete effectively. Policing unauthorized use of our trade secrets is difficult and expensive, particularly because of the global nature of our operations. The laws of other countries may not adequately protect our trade secrets.

If our trademarks and trade names are not adequately protected, then we may not be able to build brand loyalty and our sales and revenues may suffer.

Our registered or unregistered trademarks or trade names may be challenged, cancelled, infringed, circumvented or declared generic or determined to be infringing on other marks. We may not be able to protect our rights to these trademarks and trade names, which we need to build brand loyalty. Over the long term, if we are unable to establish a brand based on our trademarks and trade names, then we may not be able to compete effectively and our sales and revenues may suffer.

If we are not able to successfully scale-up production of our products, then our sales and revenues will suffer.

In order to commercialize our products, we need to be able to produce them in a cost-effective way on a large scale to meet commercial demand, while maintaining extremely high standards for quality and reliability. If we fail to successfully commercialize our products, then we will not be profitable.

We expect to rely on a limited number of independent manufacturers to produce our OLpur MDHDF filter series and our other products, including the DSU. Our manufacturers' systems and procedures may not be adequate to support our operations and may not be able to achieve the rapid execution necessary to exploit the market for our products. Our

manufacturers could experience manufacturing and control problems as they begin to scale-up our future manufacturing operations, and we may not be able to scale-up manufacturing in a timely manner or at a commercially reasonable cost to enable production in sufficient quantities. If we experience any of these problems with respect to our manufacturers' initial or future scale-ups of manufacturing operations, then we may not be able to have our products manufactured and delivered in a timely manner. Our products are new and evolving, and our manufacturers may encounter unforeseen difficulties in manufacturing them in commercial quantities or at all.

We will not control the independent manufacturers of our products, which may affect our ability to deliver our products in a timely manner. If we are not able to ensure the timely delivery of our products, then potential customers may not order our products, and our sales and revenues would be adversely affected.

Independent manufacturers of medical devices will manufacture all of our products and components. We have contracted with our CM to assemble and produce our OLpur MD190, MD220 and possibly other filters, including our DSU, and have an agreement with a fiber supplier, or FS, a manufacturer of medical and technical membranes for applications like dialysis, to produce the fiber for the OLpur MDHDF filter series. As with any independent contractor, these manufacturers will not be employed or otherwise controlled by us and will be generally free to conduct their business at their own discretion. For us to compete successfully, among other things, our products must be manufactured on a timely basis in commercial quantities at costs acceptable to us. If one or more of our independent manufacturers fails to deliver our products in a timely manner, then we may not be able to find a substitute manufacturer. If we are not or if potential customers believe that we are not able to ensure timely delivery of our products, then potential customers may not order our products, and our sales and revenues would be adversely affected.

The loss or interruption of services of any of our manufacturers could slow or stop production of our products, which would limit our ability to generate sales and revenues.

Because we are likely to rely on no more than two contract manufacturers to manufacture each of our products and major components of our products, a stop or significant interruption in the supply of our products or major components by a single manufacturer, for any reason, could have a material adverse effect on us. We expect most of our contract manufacturers will enter into contracts with us to manufacture our products and major components and that these contracts will be terminable by the contractors or us at any time under certain circumstances. We have not made alternative arrangements for the manufacture of our products or major components and we cannot be sure that acceptable alternative arrangements could be made on a timely basis, or at all, if one or more of our manufacturers failed to manufacture our products or major components in accordance with the terms of our arrangements. If any such failure occurs and we are unable to obtain acceptable alternative arrangements for the manufacture of our products or major components of our products, then the production and sale of our products could slow down or stop and our cash flow would suffer.

If we are not able to maintain sufficient quality controls, then the approval or clearance of our ESRD therapy products by the European Union, the FDA or other relevant authorities could be delayed or denied and our sales and revenues will suffer.

Approval or clearance of our ESRD therapy products could be delayed by the European Union, the FDA and the relevant authorities of other countries if our manufacturing facilities do not comply with their respective manufacturing requirements. The European Union imposes requirements on quality control systems of manufacturers, which are inspected and certified on a periodic basis and may be subject to additional unannounced inspections. Failure by our manufacturers to comply with these requirements could prevent us from marketing our ESRD therapy products in the European Community. The FDA also imposes requirements through quality system requirements, or QSR, regulations, which include requirements for good manufacturing practices, or GMP. Failure by our manufacturers to comply with these requirements could prevent us from obtaining FDA approval of our ESRD therapy products and from marketing such products in the United States. Although the manufacturing facilities and processes that we use to manufacture our OLpur MDHDF filter series have been inspected and certified by a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, they have not been inspected by the FDA. Similarly, although some of the facilities and processes that we expect to use to manufacture our OLpur H2H and OLpur NS2000 have been inspected by the FDA, they have not been inspected by any notified body. A “notified body” is a group accredited

and monitored by governmental agencies that inspects manufacturing facilities and quality control systems at regular intervals and is authorized to carry out unannounced inspections. We cannot be sure that any of the facilities or processes we use will comply or continue to comply with their respective requirements on a timely basis or at all, which could delay or prevent our obtaining the approvals we need to market our products in the European Community and the United States.

Even with approval to market our ESRD therapy products in the European Community, the United States and other countries, manufacturers of such products must continue to comply or ensure compliance with the relevant manufacturing requirements. Although we cannot control the manufacturers of our ESRD therapy products, we may need to expend time, resources and effort in product manufacturing and quality control to assist with their continued compliance with these requirements. If violations of applicable requirements are noted during periodic inspections of the manufacturing facilities of our manufacturers, then we may not be able to continue to market the ESRD therapy products manufactured in such facilities and our revenues may be materially adversely affected.

If our products are commercialized, we may face significant challenges in obtaining market acceptance of such products, which could adversely affect our potential sales and revenues.

Our products are new to the market, and we do not yet have an established market or customer base for our products. Acceptance of our ESRD therapy products in the marketplace by both potential users, including ESRD patients, and potential purchasers, including nephrologists, dialysis clinics and other health care providers, is uncertain, and our failure to achieve sufficient market acceptance will significantly limit our ability to generate revenue and be profitable. Market acceptance will require substantial marketing efforts and the expenditure of significant funds by us to inform dialysis patients and nephrologists, dialysis clinics and other health care providers of the benefits of using our ESRD therapy products. We may encounter significant clinical and market resistance to our products and our products may never achieve market acceptance. We may not be able to build key relationships with physicians, clinical groups and government agencies, pursue or increase sales opportunities in Europe or elsewhere, or be the first to introduce hemodiafiltration therapy in the United States. Product orders may be cancelled, patients or customers currently using our products may cease to do so and patients or customers expected to begin using our products may not. Factors that may affect our ability to achieve acceptance of our ESRD therapy products in the marketplace include whether:

- such products will be safe for use;
- such products will be effective;
- such products will be cost-effective;
- we will be able to demonstrate product safety, efficacy and cost-effectiveness;
- there are unexpected side effects, complications or other safety issues associated with such products; and
- government or third party reimbursement for the cost of such products is available at reasonable rates, if at all.

Acceptance of our water filtration products in the marketplace is also uncertain, and our failure to achieve sufficient market acceptance and sell such products at competitive prices will limit our ability to generate revenue and be profitable. Our water filtration products and technologies may not achieve expected reliability, performance and endurance standards. Our water filtration products and technology may not achieve market acceptance, including among hospitals, or may not be deemed suitable for other commercial, military, industrial or retail applications.

Many of the same factors that may affect our ability to achieve acceptance of our ESRD therapy products in the marketplace will also apply to our water filtration products, except for those related to side effects, clinical trials and third party reimbursement.



If we cannot develop adequate distribution, customer service and technical support networks, then we may not be able to market and distribute our products effectively and/or customers may decide not to order our products, and, in either case, our sales and revenues will suffer.

Our strategy requires us to distribute our products and provide a significant amount of customer service and maintenance and other technical service. To provide these services, we have begun, and will need to continue, to develop a network of distribution and a staff of employees and independent contractors in each of the areas in which we intend to operate. We cannot assure you we will be able to organize and manage this network on a cost-effective basis. If we cannot effectively organize and manage this network, then it may be difficult for us to distribute our products and to provide competitive service and support to our customers, in which case customers may be unable, or decide not, to order our products and our sales and revenues will suffer.

We may face significant risks associated with international operations, which could have a material adverse effect on our business, financial condition and results of operations.

We expect to manufacture and to market our products in our Target European Market and elsewhere outside of the United States. We expect that our revenues from our Target European Market will initially account for a significant portion of our revenues. Our international operations are subject to a number of risks, including the following:

- fluctuations in exchange rates of the United States dollar could adversely affect our results of operations;
- we may face difficulties in enforcing and collecting accounts receivable under some countries' legal systems;
- local regulations may restrict our ability to sell our products, have our products manufactured or conduct other operations;
  - political instability could disrupt our operations;
- some governments and customers may have longer payment cycles, with resulting adverse effects on our cash flow; and
  - some countries could impose additional taxes or restrict the import of our products.

Any one or more of these factors could increase our costs, reduce our revenues, or disrupt our operations, which could have a material adverse effect on our business, financial condition and results of operations.

If we are unable to keep our key management and scientific personnel, then we are likely to face significant delays at a critical time in our corporate development and our business is likely to be damaged.

Our success depends upon the skills, experience and efforts of our management and other key personnel, including our chief executive officer, certain members of our scientific and engineering staff and our marketing executives. As a relatively new company, much of our corporate, scientific and technical knowledge is concentrated in the hands of these few individuals. We do not maintain key-man life insurance on any of our management or other key personnel. The loss of the services of one or more of our present management or other key personnel could significantly delay the development and/or launch of our products as there could be a learning curve of several months or more for any replacement personnel. Furthermore, competition for the type of highly skilled individuals we require is intense and we may not be able to attract and retain new employees of the caliber needed to achieve our objectives. Failure to replace key personnel could have a material adverse effect on our business, financial condition and operations.





### Risks Related to the ESRD Therapy Industry

We expect to face significant competition from existing suppliers of renal replacement therapy devices, supplies and services. If we are not able to compete with them effectively, then we may not be profitable.

We expect to compete in the ESRD therapy market with existing suppliers of hemodialysis and peritoneal dialysis devices, supplies and services. Our competitors include Fresenius Medical Care AG and Gambro AB, currently two of the primary machine manufacturers in hemodialysis, as well as B. Braun Biotech International GmbH, and Nikkiso Corporation and other smaller machine manufacturers in hemodialysis. B. Braun Biotech International GmbH, Fresenius Medical Care AG, Gambro AB and Nikkiso Corporation also manufacture HDF machines. These companies and most of our other competitors have longer operating histories and substantially greater financial, marketing, technical, manufacturing and research and development resources and experience than we have. Our competitors could use these resources and experiences to develop products that are more effective or less costly than any or all of our products or that could render any or all of our products obsolete. Our competitors could also use their economic strength to influence the market to continue to buy their existing products.

We do not have a significant established customer base and may encounter a high degree of competition in further developing one. Our potential customers are a limited number of nephrologists, national, regional and local dialysis clinics and other healthcare providers. The number of our potential customers may be further limited to the extent any exclusive relationships exist or are entered into between our potential customers and our competitors. We cannot assure you that we will be successful in marketing our products to these potential customers. If we are not able to develop competitive products and take and hold sufficient market share from our competitors, we will not be profitable.

Some of our competitors own or could acquire dialysis clinics throughout the United States, our Target European Market and other regions of the world. We may not be able to successfully market our products to the dialysis clinics under their ownership. If our potential market is materially reduced in this manner, then our potential sales and revenues could be materially reduced.

Some of our competitors, including Fresenius Medical Care AG and Gambro AB, manufacture their own products and own dialysis clinics in the United States, our Target European Market and/or other regions of the world. In 2005, Gambro AB divested its U.S. dialysis clinics to DaVita, Inc. and entered a preferred, but not exclusive, ten-year supplier arrangement with DaVita, Inc., whereby DaVita, Inc. will purchase a significant amount of renal products and supplies from Gambro AB Renal Products. Because these competitors have historically tended to use their own products in their clinics, we may not be able to successfully market our products to the dialysis clinics under their ownership. According to the Fresenius Medical Care AG 2007 Form 20-F annual report, Fresenius Medical Care AG provides treatment in its own dialysis clinics to approximately 173,863 patients in approximately 2,238 facilities around the world of which approximately 1,602 facilities are located in the North America. According to DaVita, Inc.'s 2007 Annual Report, DaVita, Inc. provides treatment in 1,359 outpatient dialysis centers serving approximately 107,000 patients in the United States.

We believe that there is currently a trend among ESRD therapy providers towards greater consolidation. If such consolidation takes the form of our competitors acquiring independent dialysis clinics, rather than such dialysis clinics banding together in independent chains, then more of our potential customers would also be our competitors. If our competitors continue to grow their networks of dialysis clinics, whether organically or through consolidation, and if we cannot successfully market our products to dialysis clinics owned by these competitors or any other competitors and do not acquire clinics ourselves, then our revenues could be adversely affected.

If the size of the potential market for our products is significantly reduced due to pharmacological or technological advances in preventative and alternative treatments for ESRD, then our potential sales and revenues will suffer.

Pharmacological or technological advances in preventative or alternative treatments for ESRD could significantly reduce the number of ESRD patients needing our products. These pharmacological or technological advances may include:

- the development of new medications, or improvements to existing medications, which help to delay the onset or prevent the progression of ESRD in high-risk patients (such as those with diabetes and hypertension);
- the development of new medications, or improvements in existing medications, which reduce the incidence of kidney transplant rejection; and

- developments in the use of kidneys harvested from genetically-engineered animals as a source of transplants.

If these or any other pharmacological or technological advances reduce the number of patients needing treatment for ESRD, then the size of the market for our products may be reduced and our potential sales and revenues will suffer.

If government and other third party reimbursement programs discontinue their coverage of ESRD treatment or reduce reimbursement rates for ESRD products, then we may not be able to sell as many units of our ESRD therapy products as otherwise expected, or we may need to reduce the anticipated prices of such products and, in either case, our potential revenues may be reduced.

Providers of renal replacement therapy are often reimbursed by government programs, such as Medicare or Medicaid in the United States, or other third-party reimbursement programs, such as private medical care plans and insurers. We believe that the amount of reimbursement for renal replacement therapy under these programs has a significant impact on the decisions of nephrologists, dialysis clinics and other health care providers regarding treatment methods and products. Accordingly, changes in the extent of coverage for renal replacement therapy or a reduction in the reimbursement rates under any or all of these programs may cause a decline in recommendations or purchases of our products, which would materially adversely affect the market for our products and reduce our potential sales. Alternatively, we might respond to reduced reimbursement rates by reducing the prices of our products, which could also reduce our potential revenues.

As the number of managed health care plans increases in the United States, amounts paid for our ESRD therapy products by non-governmental programs may decrease and we may not generate sufficient revenues to be profitable.

We expect to obtain a portion of our revenues from reimbursement provided by non-governmental programs in the United States. Although non-governmental programs generally pay higher reimbursement rates than governmental programs, of the non-governmental programs, managed care plans generally pay lower reimbursement rates than insurance plans. Reliance on managed care plans for dialysis treatment may increase if future changes to the Medicare program require non-governmental programs to assume a greater percentage of the total cost of care given to dialysis patients over the term of their illness, or if managed care plans otherwise significantly increase their enrollment of these patients. If the reliance on managed care plans for dialysis treatment increases, more patients join managed care plans or managed care plans reduce reimbursement rates, we may need to reduce anticipated prices of our ESRD therapy products or sell fewer units, and, in either case, our potential revenues would suffer.

If HDF does not become a preferred therapy for ESRD, then the market for our ESRD therapy products may be limited and we may not be profitable.

A significant portion of our success is dependent on the acceptance and implementation of HDF as a preferred therapy for ESRD. There are several treatment options currently available and others may be developed. HDF may not increase in acceptance as a preferred therapy for ESRD. If it does not, then the market for our ESRD therapy products may be limited and we may not be able to sell a sufficient quantity of our products to be profitable.

If the per-treatment costs for dialysis clinics using our ESRD therapy products are higher than the costs of clinics providing hemodialysis treatment, then we may not achieve market acceptance of our ESRD therapy products in the United States and our potential sales and revenues will suffer.

If the cost of our ESRD therapy products results in an increased cost to the dialysis clinic over hemodialysis therapies and such cost is not separately reimbursable by governmental programs or private medical care plans and insurers outside of the per-treatment fee, then we may not gain market acceptance for such products in the United States unless HDF therapy becomes the standard treatment method for ESRD. If we do not gain market acceptance for our ESRD

therapy products in the United States, then the size of our market and our anticipated sales and revenues will be reduced.

Proposals to modify the health care system in the United States or other countries could affect the pricing of our products. If we cannot sell our products at the prices we plan to, then our margins and our profitability will be adversely affected.

A substantial portion of the cost of treatment for ESRD in the United States is currently reimbursed by the Medicare program at prescribed rates. Proposals to modify the current health care system in the United States to improve access to health care and control its costs are continually being considered by the federal and state governments. We anticipate that the U.S. Congress and state legislatures will continue to review and assess alternative health care reform proposals. We cannot predict whether these reform proposals will be adopted, when they may be adopted or what impact they may have on us if they are adopted. Any spending decreases or other significant changes in the Medicare program could affect the pricing of our ESRD therapy products. As we are not yet established in our business and it will take some time for us to begin to recoup our research and development costs, our profit margins are likely initially to be lower than those of our competitors and we may be more vulnerable to small decreases in price than many of our competitors.

Health administration authorities in countries other than the United States may not provide reimbursement for our products at rates sufficient for us to achieve profitability, or at all. Like the United States, these countries have considered health care reform proposals and could materially alter their government-sponsored health care programs by reducing reimbursement rates for dialysis products.

Any reduction in reimbursement rates under Medicare or foreign health care programs could negatively affect the pricing of our ESRD therapy products. If we are not able to charge a sufficient amount for our products, then our margins and our profitability will be adversely affected.

If patients in our Target European Market were to reuse dialyzers, then our potential product sales could be materially adversely affected.

In the United States, a majority of dialysis clinics reuse dialyzers — that is, a single dialyzer is disinfected and reused by the same patient. However, the trend in our Target European Market is towards not reusing dialyzers, and some countries (such as France, Germany, Italy and the Netherlands) actually forbid the reuse of dialyzers. As a result, each patient in our Target European Market can generally be expected to purchase more dialyzers than each United States patient. The laws forbidding reuse could be repealed and it may become generally accepted to reuse dialyzers in our Target European Market, just as it currently is in the United States. If reuse of dialyzers were to become more common among patients in our Target European Market, then there would be demand for fewer dialyzer units and our potential product sales could be materially adversely affected.

#### Risks Related to Our Common Stock

There currently is a limited market for our common stock.

Our common stock is quoted on the Over-the-Counter, or OTC, Bulletin Board. Prior to January 22, 2009, our common stock was listed on the AMEX. Trading in our common stock on both AMEX and the OTC Bulletin Board has been very limited, which could affect the price of our stock. We have no plans, proposals, arrangements or understandings with any person with regard to the development of an active trading market for our common stock, and no assurance can be given that an active trading market will develop.

Future sales of our common stock could cause the market price of our common stock to decline.

The market price of our common stock could decline due to sales of a large number of shares in the market, including sales of shares by our large stockholders, or the perception that such sales could occur. These sales could also make it more difficult or impossible for us to sell equity securities in the future at a time and price that we deem appropriate to raise funds through future offerings of common stock.

The prices at which shares of our common stock trade have been and will likely continue to be volatile.

In the two years ended December 31, 2009, our common stock has traded at prices ranging from a high of \$2.63 to a low of \$0.01 per share. Due to the lack of an active market for our common stock, you should expect the prices at which our common stock might trade to continue to be highly volatile. The expected volatile price of our stock will make it difficult to predict the value of your investment, to sell your shares at a profit at any given time, or to plan purchases and sales in advance. A variety of other factors might also affect the market price of our common stock. These include, but are not limited to:

- publicity regarding actual or potential clinical or regulatory results relating to products under development by our competitors or us;
- delays or failures in initiating, completing or analyzing clinical trials or the unsatisfactory design or results of these trials;
  - achievement or rejection of regulatory approvals by our competitors or us;
- announcements of technological innovations or new commercial products by our competitors or us;
  - developments concerning proprietary rights, including patents;
  - regulatory developments in the United States and foreign countries;
    - economic or other crises and other external factors;
    - period-to-period fluctuations in our results of operations;
    - changes in financial estimates by securities analysts; and
  - sales of our common stock.

We are not able to control many of these factors, and we believe that period-to-period comparisons of our financial results will not necessarily be indicative of our future performance.

In addition, the stock market in general, and the market for biotechnology companies in particular, has experienced extreme price and volume fluctuations in recent years that might have been unrelated or disproportionate to the operating performance of individual companies. These broad market and industry factors might seriously harm the market price of our common stock, regardless of our operating performance.

Because we are subject to the “penny stock” rules, you may have difficulty in selling our common stock.

Our common stock is subject to regulations of the SEC relating to the market for penny stocks. Penny stock, as defined by the Penny Stock Reform Act, is any equity security not traded on a national securities exchange or quoted on any market of the NASDAQ Stock Market that has a market price of less than \$5.00 per share. The penny stock regulations generally require that a disclosure schedule explaining the penny stock market and the risks associated therewith be delivered to purchasers of penny stocks and impose various sales practice requirements on broker-dealers who sell penny stocks to persons other than established customers and accredited investors. The broker-dealer must make a suitability determination for each purchaser and receive the purchaser’s written agreement prior to the sale. In addition, the broker-dealer must make certain mandated disclosures, including the actual sale or purchase price and

actual bid offer quotations, as well as the compensation to be received by the broker-dealer and certain associated persons. The regulations applicable to penny stocks may severely affect the market liquidity for your common stock and could limit your ability to sell your securities in the secondary market.

As a new investor, you will experience immediate and substantial dilution.

As a purchaser in this offering, you will immediately experience substantial dilution in net tangible book value. Because our common stock has in the past been sold at prices substantially lower than the offering price that you will pay, you will suffer immediate dilution of \$\_\_\_ per share in net tangible book value, based on the offering price of \$\_\_\_ per share of common stock and the sale of 2,352,941 shares and assumed offering expenses of \$55,000. The exercise of outstanding options and warrants, 1,506,712 and 8,191,827 of which were outstanding and exercisable, respectively, as of September 30, 2009 may result in further dilution. The 8,191,827 shares issuable upon the exercise of outstanding warrants will increase to 8,626,334 shares after giving effect to this offering due to anti-dilution provisions applicable to certain warrants in the event that the offering price is less than \$0.90.

Some shares in this offering might have been offered or sold in violation of the Securities Act of 1933.

Before the filing of a registration statement indicating it was for a fixed price offering, we offered shares to Seaside 88, LP and before the effectiveness of the registration statement covering the shares of our common stock being sold in this offering, we entered into an agreement with Seaside to sell stock to Seaside, which agreement was contingent on the registration statement becoming effective. The offer of stock prior to the filing of a registration statement for a fixed price offering and the execution of the agreement with Seaside might constitute violations of the Securities Act of 1933. If these actions by us did constitute a violation of the Securities Act of 1933, Seaside, if it purchases stock in this offering, would have the right, for a period of one year from the date of its purchase of common stock, to obtain recovery of the consideration paid in connection with its purchase of common stock. These damages could total up to the dollar amount of stock purchased, plus interest, if Seaside were to seek recovery or damages after a loss on any investment. In addition to Seaside's potential right of rescission, the SEC could bring a civil suit against us for any alleged violation by us of the federal securities laws and seek civil penalties against us. Applicable state authorities could bring similar suits. If any of these events occurs, our business, results of operations and financial condition would be harmed.

Further, Section 11 of the Securities Act allows purchasers who purchase stock from anyone purchasing stock in this offering to bring claims against us for losses caused by a material misstatement or a material omission in the registration statement of which this prospectus is a part.

We have never paid dividends and do not intend to pay cash dividends.

We have never paid dividends on our common stock and currently do not anticipate paying cash dividends on our common stock for the foreseeable future. Consequently, any returns on an investment in our common stock in the foreseeable future will have to come from an increase in the value of the stock itself. As noted above, the lack of an active trading market for our common stock will make it difficult to value and sell our common stock. While our dividend policy will be based on the operating results and capital needs of our business, it is anticipated that all earnings, if any, will be retained to finance our future operations.

Our directors, executive officers and principal stockholders control a significant portion of our stock and, if they choose to vote together, could have sufficient voting power to control the vote on substantially all corporate matters.

As of December 31, 2009, our directors and executive officers and their affiliates beneficially owned approximately 44.7% of our outstanding common stock. As of December 31, 2009, Lambda Investors LLC beneficially owned 44.2% of our outstanding common stock. To our knowledge, as of December 31, 2009, AFS Holdings One LLC beneficially owned 7.6% of our outstanding common stock and Stagg Capital Group LLC beneficially owned 9.0% of



our outstanding common stock, based on their respective most recent filings with the SEC. See “Security Ownership of Certain Beneficial Owners and Management.”

Our principal stockholders may have significant influence over our policies and affairs, including the election of directors. Should they act as a group, they will have the power to elect all of our directors and to control the vote on substantially all other corporate matters without the approval of other stockholders. Furthermore, such concentration of voting power could enable those stockholders to delay or prevent another party from taking control of our company even where such change of control transaction might be desirable to other stockholders.

As a relatively new company with little or no name recognition and with several risks and uncertainties that could impair our business operations, we are not likely to generate widespread interest in our common stock. Without widespread interest in our common stock, our common stock price may be highly volatile and an investment in our common stock could decline in value.

Unlike many companies with publicly traded securities, we have little or no name recognition in the investment community. We are a relatively new company and very few investors are familiar with either our company or our products. We do not have an active trading market in our common stock, and one might never develop, or if it does develop, might not continue.

Additionally, the market price of our common stock may fluctuate significantly in response to many factors, many of which are beyond our control. Risks and uncertainties, including those described elsewhere in this “Risk Factors” section could impair our business operations or otherwise cause our operating results or prospects to be below expectations of investors and market analysts, which could adversely affect the market price of our common stock. As a result, investors in our common stock may not be able to resell their shares at or above their purchase price and could lose all of their investment.

Securities class action litigation is often brought against public companies following periods of volatility in the market price of such company’s securities. As a result, we may become subject to this type of litigation in the future. Litigation of this type could be extremely expensive and divert management’s attention and resources from running our company.

We may use our financial resources in ways with which you do not agree and in ways that may not yield a favorable return.

Our management has broad discretion over the use of our financial resources, including the net proceeds from any financing, including any sales made pursuant to this offering. Stockholders may not deem such uses desirable. Our use of our financial resources may vary substantially from our currently planned uses. We cannot assure you that we will apply such proceeds effectively or that we will invest such proceeds in a manner that will yield a favorable return or any return at all.

Several provisions of the Delaware General Corporation Law, our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws could discourage, delay or prevent a merger or acquisition, which could adversely affect the market price of our common stock.

Several provisions of the Delaware General Corporation Law, our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws could discourage, delay or prevent a merger or acquisition that stockholders may consider favorable, and the market price of our common stock could be reduced as a result. These provisions include:

- authorizing our board of directors to issue “blank check” preferred stock without stockholder approval;
- providing for a classified board of directors with staggered, three-year terms;
- prohibiting us from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder unless certain provisions are met;
- prohibiting cumulative voting in the election of directors;

- limiting the persons who may call special meetings of stockholders; and
- establishing advance notice requirements for nominations for election to our board of directors or for proposing matters that can be acted on by stockholders at stockholder meetings.

Our fourth amended and restated certificate of incorporation, as amended, limits liability of our directors and officers, which could discourage you or other stockholders from bringing suits against our directors or officers in circumstances where you think they might otherwise be warranted.

Our fourth amended and restated certificate of incorporation, as amended, provides, with specific exceptions required by Delaware law, that our directors are not personally liable to us or our stockholders for monetary damages for any action or failure to take any action. In addition, we have agreed to, and our fourth amended and restated certificate of incorporation, as amended, and our second amended and restated bylaws provide for, mandatory indemnification of directors and officers to the fullest extent permitted by Delaware law. These provisions may discourage stockholders from bringing suit against a director or officer for breach of duty and may reduce the likelihood of derivative litigation brought by stockholders on our behalf against any of our directors or officers.

If we fail to maintain an effective system of internal controls over financial reporting, we may not be able to accurately report our financial results, which could have a material adverse effect on our business, financial condition and the market value of our securities.

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports. If we cannot provide reliable financial reports, our reputation and operating results may be harmed.

As of December 31, 2007, management reported a material weakness in the company's internal control over financial reporting due to an insufficient number of resources in the accounting and finance department that does not allow for a thorough review process. Throughout fiscal year 2008, we implemented the following measures which resulted in the remediation of this material weakness as of December 31, 2008:

- developed procedures to implement a formal quarterly closing calendar and process and held quarterly meetings to address the quarterly closing process;
- established a detailed timeline for review and completion of financial reports to be included in our Forms 10-Q and 10-K;
- enhanced the level of service provided by outside accounting service providers to further support and provide additional resources for internal preparation and review of financial reports and supplemented our internal staff in accounting and related areas; and
- employed the use of appropriate supplemental SEC and U.S. GAAP checklists in connection with our closing process and the preparation of our Forms 10-Q and 10-K.

## USE OF PROCEEDS

We intend to use the net proceeds from this offering for general corporate purposes, including further development of our product candidates, clinical trials, research and development expenses, and administrative expenses. Pending the application of the net proceeds, we intend to invest the net proceeds generally in short-term, investment grade, interest bearing securities.

## DETERMINATION OF OFFERING PRICE

The per share purchase price is \$\_\_\_\_. The per share purchase price does not necessarily relate to our asset value, net worth, or other established criteria of value, other than the stock price as quoted on the Over-the-Counter Bulletin Board, and may not be indicative of prices for our common stock that will prevail in the trading market.

The offering price will be negotiated by us with prospective purchasers. Each purchaser will pay the same price to purchase stock in this offering.

## DILUTION

If you invest in our common stock in this offering, your ownership interest will be diluted to the extent of the difference between the public offering price per share and the pro forma net tangible book value per share. Our historical net tangible book value as of September 30, 2009 was approximately \$2,412,000, or approximately \$0.06 per share. Historical net tangible book value per share is determined by dividing our net tangible book value by the actual number of outstanding shares of common stock. Dilution in historical net tangible book value per share represents the difference between the amount per share paid by the purchaser of shares of common stock in this offering and the pro forma net tangible book value per share of common stock immediately after the closing of this offering.

After giving effect to the sale of 2,352,941 shares of common stock at the offering price of \$\_\_\_\_ per share, and after deducting estimated offering expenses payable by us of \$55,000, our pro forma net tangible book value as of September 30, 2009 would have been \$\_\_\_\_, or \$\_\_\_\_ per share of common stock. This would represent an immediate increase in pro forma net tangible book value of \$\_\_\_\_ per share to existing stockholders and an immediate dilution of \$\_\_\_\_ per share to the investor purchasing shares of common stock in this offering at the offering price of \$\_\_\_\_ per share.

The shares outstanding as of September 30, 2009 used to calculate the information in this section exclude the following items:

- 1,506,712 shares issuable upon the exercise of stock options outstanding on September 30, 2009; or
- 8,191,827 shares issuable upon the exercise of warrants outstanding on September 30, 2009 (which number will increase to 8,626,334 shares after giving effect to this offering due to anti-dilution provisions applicable to certain warrants in the event that the offering price is less than \$0.90).

## PLAN OF DISTRIBUTION

We are offering the shares on our own. This prospectus forms a part of a registration statement that permits our officers and directors to sell the shares directly to the public, with no commission or other remuneration payable to them for any shares they sell. There are no plans or arrangements to enter into any contracts or agreements to sell the shares with a broker or dealer. In offering the securities on our behalf, our officers and directors will rely on the safe

harbor from broker/dealer registration set out in Rule 3a4-1 under the Exchange Act, which sets forth those conditions under which a person associated with an issuer may participate in the offering of the issuer's securities and not be deemed to be a broker/dealer.

There is no minimum number of shares that we must sell in this offering. As a result, the actual amount of gross proceeds from the sale of shares, if any, might not be sufficient to cover the expenses of this offering.

The offering will run for 15 business days from the date of this prospectus.

We do not have any oral or written arrangements, understandings or commitments related to the purchase of the stock being offered in this offering.

## DESCRIPTION OF CAPITAL STOCK

On October 26, 2009, we amended our certificate of incorporation to increase our authorized capital stock from 65,000,000 shares to 95,000,000 shares and our authorized common stock from 60,000,000 shares to 90,000,000 shares. This increase was approved by our stockholders on October 22, 2009. The amount of authorized preferred stock, which is 5,000,000 shares, was not increased.

### Common Stock

Our authorized common stock consists of 90,000,000 shares, \$0.001 par value per share. As of January 15, 2010, there were 41,604,798 shares of common stock outstanding.

Holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of the stockholders and do not have cumulative voting rights. Accordingly, holders of a majority of the shares of our common stock entitled to vote in any election of directors may elect all of the directors standing for election. Our certificate of incorporation provides for the division of our board of directors into three classes of directors, with each class as nearly equal in number as possible, serving staggered, three-year terms. See “Anti-Takeover Effects of Provisions of Our Charter Documents” below for a further discussion of this provision.

Apart from preferences that may be applicable to any holders of preferred stock outstanding at the time, holders of our common stock are entitled to receive dividends, if any, ratably as may be declared from time to time by the Board out of funds legally available therefor. Upon our liquidation, dissolution or winding up, the holders of our common stock are entitled to receive ratably our net assets available after the payment of all liabilities and liquidation preferences on any outstanding preferred stock. Holders of our common stock have no preemptive, subscription, redemption or conversion rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock which we may designate and issue in the future.

### Preferred Stock

Our authorized preferred stock consists of 5,000,000 shares, \$0.001 par value per share. As of January 15, 2010, there were no shares of preferred stock outstanding.

Our board of directors has the authority, without further action by our stockholders, to issue shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof, including dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of such series, without any further vote or action by our stockholders. The issuance of preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon liquidation and could have the effect of delaying, deferring or preventing a change in control of our company.

The General Corporation Law of the State of Delaware, the state of our incorporation, provides that the holders of preferred stock will have the right to vote separately as a class on any proposal involving fundamental changes in the rights of holders of that preferred stock. This right is in addition to any voting rights that may be provided for in the applicable certificate of designation.

### Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Continental Stock Transfer & Trust Company.

#### Over-the-Counter Bulletin Board

Our common stock is not listed on any stock exchange. Our common stock is quoted on the Over-the-Counter Bulletin Board under the symbol “NEPH.OB.” On January 20, 2010, the last reported sale price of our common stock was \$0.91 per share.

#### Anti-Takeover Effects of Provisions of Our Charter Documents

Our certificate of incorporation and bylaws may have anti-takeover effects. These provisions are intended to avoid costly takeover battles, lessen our vulnerability to a hostile change of control and enhance the ability of our board of directors to maximize stockholder value in connection with any unsolicited offer to acquire us. However, these anti-takeover provisions, which are summarized below, could also discourage, delay or prevent the merger or acquisition of our company by means of a tender offer, a proxy contest or otherwise, that a stockholder may consider in its best interest, and the removal of incumbent officers and directors.



### Blank Check Preferred Stock

As discussed above, under the terms of our certificate of incorporation, our board of directors has authority, without any further vote or action by our stockholders, to issue up to 5,000,000 shares of blank check preferred stock. Our board of directors may issue shares of preferred stock on terms calculated to discourage, delay or prevent a change of control of our company or the removal of our management.

### Classified Board of Directors

Our certificate of incorporation provides for the division of our board of directors into three classes of directors, with each class as nearly equal in number as possible, serving staggered, three-year terms. Approximately one-third of our board of directors will be elected each year. This classified board provision could discourage a third party from making a tender offer for our shares or attempting to obtain control of our company. It could also delay stockholders who do not agree with the policies of the board of directors from removing a majority of the board of directors for two years.

### Removal of Directors

Our certificate of incorporation provides that our directors may be removed only for cause and only upon the affirmative vote of the holders of at least a majority of the outstanding shares of our common stock entitled to vote for such directors. This provision may discourage, delay or prevent the removal of incumbent officers and directors.

### Limited Actions by Stockholders

Our certificate of incorporation and our by-laws provide that any action required or permitted to be taken by our stockholders must be effected at an annual or special meeting of stockholders or by the unanimous written consent of our stockholders. Our certificate of incorporation provides that, subject to certain exceptions, only our board of directors, the chairman of our board of directors, our president, vice president or secretary may call special meetings of our stockholders. Accordingly, a stockholder may be prevented from calling a special meeting for stockholder consideration of a proposal over the opposition of our board of directors and stockholder consideration of a proposal may be delayed until the next annual meeting.

### Investor Rights Agreement

In September 2007, in connection with a convertible debt financing, we entered into an Investor Rights Agreement with Lambda Investors LLC, Southpaw Credit Opportunity Master Fund LP, 3V Capital Master Fund Ltd, Distressed/High Yield Trading Opportunities, Ltd., Kudu Partners, L.P. and LJHS Company, referred to collectively as the Investors, all of whom became holders of our common stock upon the conversion of the notes purchased by them in that offering. Pursuant to that agreement:

- we agreed to take such corporate actions as may be required to, among other things, entitle Lambda to (i) nominate the Lambda Nominees (as defined in the Investor Rights Agreement) to our board of directors to serve as directors until their respective successor(s) are elected and qualified, (ii) nominate each successor to such Lambda nominees, provided that any successor shall have reasonably appropriate experience and background, and (iii) direct the removal from the board of any director nominated under the foregoing clauses (i) or (ii). Under the agreement, we are required to convene meetings of our board at least once every three months. If we fail to do so, a Lambda director will be empowered to convene such meeting; and

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the Investors other than Lambda agreed to vote all shares of our common stock, and any other capital stock or other securities of ours, that they hold for the election to our board of the Lambda nominees and for the removal from the Board of the Lambda nominees proposed to be removed in accordance with clause (iii) above, and not to vote for the removal of any Lambda director except pursuant to direction from Lambda pursuant to clause (iii) above.

#### DIVIDEND POLICY

We do not anticipate paying any dividends on our common stock in the foreseeable future. We expect to retain future earnings, if any, for use in our development activities and the operation of our business. The payment of any future dividends will be subject to the discretion of our board of directors and will depend, among other things, upon our results of operations, financial condition, cash requirements, prospects and other factors that our board of directors may deem relevant. Additionally, our ability to pay future dividends may be restricted by the terms of any debt financing, tax considerations and applicable law.

## BUSINESS

### Overview

Founded in 1997, we are a Delaware corporation that has been engaged primarily in the development of hemodiafiltration, or HDF, products and technologies for treating patients with End Stage Renal Disease, or ESRD. In January 2006, we introduced our new Dual Stage Ultrafilter (the “DSU”) water filtration system, which represents a new and complementary product line to our existing ESRD therapy business.

We currently have three products in various stages of development in the HDF modality to deliver improved therapy to ESRD patients:

- OLpur MDHDF filter series (which we sell in various countries in Europe and currently consists of our MD190 and MD220 diafilters); to our knowledge, the only filter designed expressly for HDF therapy and employing our proprietary Mid-Dilution Diafiltration technology;
- OLpur H2H, our add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy; and
  - OLpur NS2000 system, our stand-alone HDF machine and associated filter technology.

We have also developed our OLpur HD 190 high-flux dialyzer cartridge, which incorporates the same materials as our OLpur MD series but does not employ our proprietary Mid-Dilution Diafiltration technology. Our OLpur HD190 was designed for use with either hemodialysis or hemodiafiltration machines, and received its approval from the U.S. Food and Drug Administration, or FDA, under Section 510(k) of the Food, Drug and Cosmetic Act, or the FDC Act, in June 2005.

OLpur and H2H are among our trademarks for which U.S. registrations are pending. H2H is a registered European Union trademark. We have assumed that the reader understands that these terms are source-indicating. Accordingly, such terms appear throughout the remainder of this Annual Report without trademark notices for convenience only and should not be construed as being used in a descriptive or generic sense.

We believe that products in our OLpur MDHDF filter series are more effective than any products currently available for ESRD therapy because they are better at removing certain larger toxins (known in the industry as “middle molecules” because of their heavier molecular weight) from blood. The accumulation of middle molecules in the blood has been related to such conditions as malnutrition, impaired cardiac function, carpal tunnel syndrome, and degenerative bone disease in the ESRD patient. We also believe that OLpur H 2 H will, upon introduction, expand the use of HDF as a cost-effective and attractive alternative for ESRD therapy, and that, if approved in 2009, our OLpur H 2 H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

We believe that our products will reduce hospitalization, medication and care costs as well as improve patient health (including reduced drug requirements and improved blood pressure profiles), and therefore, quality of life, by removing a broad range of toxins through a more patient-friendly, better-tolerated process. In addition, independent studies in Europe have indicated that, when compared with dialysis as it is currently offered in the United States, HDF can reduce the patient’s mortality risk by up to 35%. We believe that the OLpur MDHDF filter series and the OLpur H 2 H will provide these benefits to ESRD patients at competitive costs and without the need for ESRD treatment providers to make significant capital expenditures in order to use our products. We also believe that the OLpur NS2000 system, if successfully developed, will be the most cost-effective stand-alone hemodiafiltration system available.

In January 2006, we introduced our new Dual Stage Ultrafilter (the “DSU”) water filtration system. Our DSU represents a new and complementary product line to our existing ESRD therapy business. The DSU incorporates our unique and proprietary dual stage filter architecture and is, to our knowledge, the only water filter that allows the user to sight-verify that the filter is properly performing its cleansing function. Our research and development work on the OLpur H 2 H and MD Mid-Dilution filter technologies for ESRD therapy provided the foundations for a proprietary multi-stage water filter that we believe is cost effective, extremely reliable, and long-lasting. We believe our DSU can offer a robust solution to a broad range of contaminated water and disease prevention issues. Hospitals are particularly stringent in their water quality requirements; transplant patients and other individuals whose immune systems are compromised can face a substantial infection risk in drinking or bathing with standard tap water that would generally not present a danger to individuals with normal immune function. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. With over 5,000 registered hospitals in the United States alone (as reported by the American Hospital Association in Fast Facts of October 20, 2006), we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. Following its review of the application, the FDA has requested additional information from us. On February 24, 2009, we provided a formal response to the FDA. Per FDA guidelines, the FDA has 90 days to review the additional information provided by us.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we are developing a personal potable water purification system for use by warfighters. Work on this project commenced in January 2008 and we have billed \$196,000 during the year ended December 31, 2008. In December 2007, the U.S. Department of Defense Appropriations Act appropriated an additional \$2 million to continue the development of a dual stage ultra reliable personal water filtration system. In August 2009, we were awarded a new \$2 million research contract from the Office of Naval Research, or ONR, for development of a potable dual-stage military water purifying filter. The research contract was an expansion of our current ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of the Nephros ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded ONR contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We believe that the military product development efforts will have broad consumer applications as well and have begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.

#### Going Concern

The financial statements included in this prospectus have been prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

We have incurred losses in our operations in each quarter since inception. For the years ended December 31, 2008 and 2007, we have incurred net losses of \$6,337,000 and \$26,356,000, respectively. In addition, we have not generated positive cash flow from operations for the year ended December 31, 2008 and 2007. To become profitable, we must increase revenue substantially and achieve and maintain positive gross and operating margins. If we are not able to increase revenue and gross and operating margins sufficiently to achieve profitability, our results of operations and financial condition will be materially and adversely affected.

At December 31, 2008, we had \$2,306,000 in cash and cash equivalents. There can be no assurance that our cash and cash equivalents will provide the liquidity we need to continue our operations. These operating plans primarily include the continued development and support of our business in the European market, organizational changes necessary to begin the commercialization of our water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation.

There can be no assurance that our future cash flow will be sufficient to meet our obligations and commitments. If we are unable to generate sufficient cash flow from operations in the future to service our commitments we will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing our planned activities or

ceasing our operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable us to continue to satisfy our capital requirements.

We continue to investigate additional funding opportunities by talking to various potential investors who could provide financing. However, there can be no assurance that we will be able to obtain further financing, do so on reasonable terms or do so on terms that would not substantially dilute your equity interests in us. If we are unable to raise additional funds on a timely basis, or at all, the Company will not be able to continue its operations.

In addition, on September 12, 2008, we received a letter from the NYSE Alternext US LLC (formerly, the American Stock Exchange or "AMEX") notifying us of our noncompliance with certain continued listing standards. The following are the listing standards that we were in noncompliance of:

- Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;
- Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and
- Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

In response to that letter, we submitted a plan of compliance to the AMEX on October 13, 2008 advising the AMEX of the actions we have taken, or will take, that would bring us into compliance with the continued listing standards by April 30, 2009.

Subsequent to December 31, 2008, on January 8, 2009, we received a letter from the AMEX notifying us that it was rejecting our plan. The AMEX further notified us that the AMEX intends to strike the common stock from the AMEX by filing a delisting application with the Securities and Exchange Commission pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, we have decided not to seek an appeal of the AMEX's intention to delist our common stock.

On January 22, 2009, we were informed by the AMEX that the AMEX had suspended trading in our common stock effective immediately. Immediately following the notification, our common stock was no longer traded on the AMEX.

Effective February 4, 2009, our common stock is now quoted on the Over the Counter, or OTC, Bulletin Board under the symbol "NEPH.OB".

### Current ESRD Therapy Options

Current renal replacement therapy technologies include (1) two types of dialysis, peritoneal dialysis and hemodialysis, (2) hemofiltration and (3) hemodiafiltration, a combination of hemodialysis and hemofiltration. Dialysis can be broadly defined as the process that involves movement of molecules across a semipermeable membrane. In hemodialysis, hemofiltration or hemodiafiltration, the blood is exposed to an artificial membrane outside of the body. During Peritoneal Dialysis (PD), the exchange of molecules occurs across the membrane lining of the patient's peritoneal cavity. While there are variations in each approach, in general, the three major categories of renal replacement therapy in the marketplace today are defined as follows:

#### • Dialysis

- o Peritoneal Dialysis, or PD, uses the patient's peritoneum, the membrane lining covering the internal abdominal organs, as a filter by introducing injectable-grade dialysate solution into the peritoneal cavity through a surgically implanted catheter. After some period of time, the fluid is drained and replaced. PD is limited in use because the peritoneal cavity is subject to scarring with repeated episodes of inflammation of the peritoneal membrane, reducing the effectiveness of this treatment approach. With time, a PD patient's kidney function continues to deteriorate and peritoneal toxin removal alone may become insufficient to provide adequate treatment. In such case the patient may switch to an extracorporeal renal replacement therapy such as hemodialysis or hemodiafiltration.
- o Hemodialysis uses an artificial kidney machine to remove certain toxins and fluid from the patient's blood while controlling external blood flow and monitoring patient vital signs. Hemodialysis patients are connected to a dialysis machine via a vascular access device. The hemodialysis process occurs in a dialyzer cartridge with a semi-permeable membrane which divides the dialyzer into two chambers: while the blood is circulated through one chamber, a premixed solution known as dialysate circulates through the other chamber. Toxins and excess fluid from the blood cross the membrane into the dialysate solution through a process known as "diffusion."
- Hemofiltration is a cleansing process without dialysate solution where blood is passed through a semi-permeable membrane, which filters out solute particles.
- Hemodiafiltration, or HDF, in its basic form combines the principles of hemodialysis with hemofiltration. HDF uses dialysate solution with a negative pressure (similar to a vacuum effect) applied to the dialysate solution to draw additional toxins from the blood and across the membrane. This process is known as "convection." HDF thus combines diffusion with convection, offering efficient removal of small solutes by diffusion, with improved removal of larger substances (i.e., middle molecules) by convection.

Hemodialysis is the most common form of extracorporeal renal replacement therapy and is generally used in the United States. Hemodialysis fails, in our opinion, to address satisfactorily the long-term health or overall quality of life of the ESRD patient. We believe that the HDF process, which is currently available in our Target European Market and Japan, offers improvement over other dialysis therapies because of better ESRD patient tolerance, superior

blood purification of both small and middle molecules, and a substantially improved mortality risk profile.

#### Current Dialyzer Technology used with HDF Systems

In our view, treatment efficacy of current HDF systems is limited by current dialyzer technology. As a result of the negative pressure applied in HDF, fluid is drawn from the blood and across the dialyzer membrane along with the toxins removed from the blood. A portion of this fluid must be replaced with a man-made injectable grade fluid, known as “substitution fluid,” in order to maintain the blood’s proper fluid volume. With the current dialyzer technology, fluid is replaced in one of two ways: pre-dilution or post-dilution.

- With pre-dilution, substitution fluid is added to the blood before the blood enters the dialyzer cartridge. In this process, the blood can be over-diluted, and therefore more fluid can be drawn across the membrane. This enhances removal of toxins by convection. However, because the blood is diluted before entering the device, it actually reduces the rate of removal by diffusion; the overall rate of removal, therefore, is reduced for small molecular weight toxins (such as urea) that rely primarily on diffusive transport.
- With post-dilution, substitution fluid is added to blood after the blood has exited the dialyzer cartridge. This is the currently preferred method because the concentration gradient is maintained at a higher level, thus not impairing the rate of removal of small toxins by diffusion. The disadvantage of this method, however, is that there is a limit in the amount of plasma water that can be filtered from the blood before the blood becomes too viscous, or thick. This limit is approximately 20% to 25% of the blood flow rate. This limit restricts the amount of convection, and therefore limits the removal of middle and larger molecules.



## The Nephros Mid-Dilution Diafiltration Process

Our OLpur MDHDF filter series uses a design and process we developed called Mid-Dilution Diafiltration, or MDF. MDF is a fluid management system that optimizes the removal of both small toxins and middle-molecules by offering the advantages of pre-dilution HDF and post-dilution HDF combined in a single dialyzer cartridge. The MDF process involves the use of two stages: in the first stage, blood is filtered against a dialysate solution, therefore providing post-dilution diafiltration; it is then overdiluted with sterile infusion fluid before entering a second stage, where it is filtered once again against a dialysate solution, therefore providing pre-dilution diafiltration. We believe that the MDF process provides improved toxin removal in HDF treatments, with a resulting improvement in patient health and concurrent reduction in healthcare costs.

## Our ESRD Therapy Products

Our products currently available or in development with respect to ESRD Therapy include:

### OLpur MDHDF Filter Series

OLpur MD190 and MD220 constitute our dialyzer cartridge series that incorporates the patented MDF process and is designed for use with existing HDF platforms currently prevalent in our Target European Market and Japan. Our MDHDF filter series incorporates a unique blood-flow architecture that enhances toxin removal with essentially no cost increase over existing devices currently used for HDF therapy.

Laboratory bench studies have been conducted on our OLpur MD190 by members of our research and development staff and by a third party. We completed our initial clinical studies to evaluate the efficacy of our OLpur MD190 as compared to conventional dialyzers in Montpellier, France in 2003. The results from this clinical study support our belief that OLpur MD190 is superior to post-dilution hemodiafiltration using a standard high-flux dialyzer with respect to  $\beta_2$ -microglobulin clearance. In addition, clearances of urea, creatinine, and phosphate met the design specifications proposed for the OLpur MD190 device. Furthermore, adverse event data from the study suggest that hemodiafiltration with our OLpur MD190 device was well tolerated by the patients and safe.

We have initiated longer term clinical studies in the United Kingdom, France, Germany, Italy and Spain to further demonstrate the therapeutic benefits of our OLpur MDHDF filter series. A multi-center study was started in March 2005. This study encompassed seven centers in France, five centers in Germany and one center in Sweden. Also commencing in 2005 were studies in the United Kingdom and in Italy. A three-month study was conducted in Spain. All enrolled patients in the multi-center and Spain studies completed the investigational period with the Nephros OLpur MDHDF filter devices. Initial data is very positive, demonstrating improved low-molecular weight protein removal, improvements in appetite, an overall improved distribution of fluids and body composition, and optimal toxin removal and treatment tolerance for patients suffering from limited vascular access. Data was presented at the American Society of Nephrology meeting held in November 2006. A complete manuscript of the entire multi-center study is expected to be submitted for publication in a reputable journal in 2010.

We contracted with TÜV Rheinland of North America, Inc., a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, to assist us in obtaining the Conformité Européene, or CE mark, a mark which demonstrates compliance with relevant European Union requirements. We received CE marking on the OLpur MD190 (which also covers other dialyzers in our MDHDF filter series), as well as certification of our overall quality system, on July 31, 2003. In the fourth quarter of 2006 we received CE marking on the DSU.

We initiated marketing of our OLpur MD190 in our Target European Market in March 2004. We have established a sales presence in countries throughout our Target European Market, mainly through distributors, and we have developed marketing material in the relevant local languages. We also attend trade shows where we promote our product to several thousand people from the industry. Our OLpur MD220 is a new product that we began selling in our Target European Market in 2006. The OLpur MD220 employs the same technology as our OLpur MD190, but contains a larger surface area of fiber. Because of its larger surface area, the OLpur MD220 may provide greater clearance of certain toxins than the OLpur MD190, and is suitable for patients of larger body mass.

We are currently offering the OLpur MD190 and OLpur MD220 at a price comparable to the existing “high performance” dialyzers sold in the relevant market. We are unable at this time to determine what the market prices will be in the future.

In the first quarter of 2007, we received approval from the FDA for our Investigational Device Exemption (“IDE”) application for the clinical evaluation of our OLpūr H2H module and OLpūr MD 220 filter. We completed the patient treatment phase of our clinical trial during the second quarter of 2008. We submitted our data to the FDA with our 510(k) application on these products in November 2008. Following its review of the application, the FDA requested additional information from us. We replied to the FDA inquiries on March 13, 2009. The FDA has not provided us with any additional requests for information or rendered a decision on our application. We have made inquiries to the FDA about the status of our application and have been informed that our application is still under their review process.

### OLpur HD190

OLpur HD190 is our high-flux dialyzer cartridge, designed for use with either hemodialysis or hemodiafiltration machines. The OLpur HD190 incorporates the same materials as our OLpur MD190, but lacks our proprietary mid-dilution architecture.

### OLpur H2H

OLpur H2H is our add-on module that converts the most common types of hemodialysis machines — that is, those with volumetric ultrafiltration control — into HDF-capable machines allowing them to use our OLpur MDHDF filter. We have completed our OLpur H 2 H design and laboratory bench testing, all of which were conducted by members of our research and development staff. Our design verification of the OLpur H 2 H was completed making the device ready for U.S. clinical trial. With the filing of the 501(k) applications in November 2008, we hope to achieve U.S. regulatory approval and market introduction of both products during the first half of 2009. Following its review of the application, the FDA has requested additional information from us. We replied to the FDA inquiries on March 13, 2009. Per FDA guidelines, the FDA has 90 days to review the additional information provided by us.

### OLpur NS2000

OLpur NS2000 is our standalone HDF machine and associated filter technology, which is in the development stage. The OLpur NS2000 will use a basic HDF platform which will incorporate our H 2 H technology including our proprietary substitution fluid systems.

We have also designed and developed proprietary substitution fluid filter cartridges for use with the OLpur NS2000, which have been subjected to pre-manufacturing testing. We will need to obtain the relevant regulatory clearances prior to any market introduction of our OLpur NS2000 in the United States.

### Our Water Filtration Product

In January 2006, we introduced our Dual Stage Ultrafilter, or DSU, water filtration system. The DSU incorporates our unique and proprietary dual stage filter architecture. Our research and development work on the OLpur H 2 H and MD filter technologies for ESRD therapy provided the foundations for a proprietary multi-stage water filter that we believe is cost effective, extremely reliable, and long-lasting. We believe our DSU can offer a robust solution to various contaminated water and infection control issues. The DSU is designed to remove a broad range of bacteria, viral agents and toxic substances, including salmonella, hepatitis, cholera, HIV, Ebola virus, ricin toxin, legionella, fungi and e-coli. We believe our DSU offers four distinct advantages over competitors in the water filtration marketplace:

- 1) the DSU is, to our knowledge, the only water filter that provides the user with a simple sight verification that the filter is properly performing its cleansing function due to our unique dual-stage architecture;
- 2) the DSU filters finer biological contaminants than other filters of which we are aware in the water filtration marketplace;
- 3) the DSU filters relatively large volumes of water before requiring replacement; and
- 4) the DSU continues to protect the user even if the flow is reduced by contaminant volumes, because contaminants do not cross the filtration medium.

With over 5,000 registered hospitals in the United States alone, we believe the hospital shower and faucet market can offer us a valuable opportunity as a first step in water filtration. We have established a goal in 2009 and 2010 to gain a foothold at U.S. and European facilities that seek to become centers of excellence in infection control through the use of our DSU products.

Due to the ongoing concerns of maintaining water quality, on October 7, 2008, we filed a 510(k) application for approval to market our DSU to dialysis clinics for in-line purification of dialysate water. On July 1, 2009, the FDA approved the DSU to be used to filter biological contaminants from water and dialysate concentrate used in hemodialysis procedures.

In 2006, the U.S. Defense Department budget included an appropriation for the U.S. Marine Corps for development of a dual stage water ultra filter. In connection with this Federal appropriation of approximately \$1 million, we are developing a personal potable water purification system for use by warfighters. Work on this project commenced in January 2008 and we have billed \$196,000 during the year ended December 31, 2008. In December 2007, the U.S. Department of Defense Appropriations Act appropriated an additional \$2 million to continue the development of a dual stage ultra reliable personal water filtration system. In August 2009, we were awarded a new \$2 million research contract from the Office of Naval Research, or ONR, for development of a potable dual-stage military water purifying filter. The research contract was an expansion of our current ONR contract which is being performed as part of the Marine Corps Advanced Technology Demonstration (ATD) project. The primary objective of this expanded research program is to select concepts and functional prototype filter/pump units which were developed during the first phase of the project, and further develop them into smaller field-testable devices that can be used for military evaluation purposes. An advantage of the Nephros ultrafilter is the removal of viruses which are not removed with commercially available off-the-shelf microfilter devices. Such devices generally rely on a secondary chemical disinfection step to make the water safe to drink. The expanded ONR contract also includes research geared toward improving membrane performance, improving device durability, developing larger squad-level water purifier devices, and investigating desalination filter/pump devices for emergency-use purposes. We have also introduced the DSU to various government agencies as a solution to providing potable water in certain emergency response situations. We believe that the military product development efforts will have broad consumer applications as well and have begun investigating a range of commercial, industrial and retail opportunities for our DSU technology.

## Our Strategy

We believe that current mortality and morbidity statistics, in combination with quality of life issues faced by the ESRD patient, has generated demand for improved ESRD therapies. We also believe that our products and patented technology offer the ability to remove toxins more effectively than current dialysis therapy, in a cost framework competitive with currently available, less-effective therapies. The following are some highlights of our current strategy:

**Showcase Product Efficacy in our Target European Market:** As of March 2004, we initiated marketing in our Target European Market for the OLpur MD190. There is an immediate opportunity for sales of the OLpur MDHDF filters in our Target European Market because there is an established HDF machine base using disposable dialyzers. We have engaged in a series of clinical trials throughout our Target European Market to demonstrate the superior efficacy of our product. We believe that by demonstrating the effectiveness of our MDHDF filter series we will encourage more customers to purchase our products. Our MDHDF filter series has been applied successfully in over 100,000 treatments to date.

**Convert Existing Hemodialysis Machines to Hemodiafiltration:** Upon completion of the appropriate documentation for our OLpur H 2 H technology, we plan to apply for CE marking for our OLpur H 2 H during 2010. We plan to complete our regulatory approval processes in the United States for both our OLpur MDHDF filter series and our OLpur H 2 H in 2009. If successfully approved, our OLpur H 2 H product will enable HDF therapy using the most common types of hemodialysis machines together with our OLpur MDHDF filters. Our goal is to achieve market penetration by offering the OLpur H2H for use by healthcare providers inexpensively, thus permitting the providers to use the OLpur H 2 H without a large initial capital outlay. We do not expect to generate significant positive margins from sales of OLpur H 2 H. We believe H 2 H will provide a basis for more MDHDF filter sales. We believe that, if approved in 2009, our OLpur H 2 H and MDHDF filters will be the first, and only, HDF therapy available in the United States at that time.

**Upgrade Dialysis Clinics to OLpur NS2000:** We believe the introduction of the OLpur NS2000 will represent a further upgrade in performance for dialysis clinics by offering a cost-effective stand-alone HDF solution that incorporates the benefits of our OLpur H 2 H technology. We believe dialysis clinics will entertain OLpur NS2000 as an alternative to their current technology at such dialysis clinic's machine replacement point.

**Develop a Foothold in the Healthcare Arena by Offering our DSU as a Means to Control Environment-Acquired Infections:** We believe our DSU offers an effective, and cost-effective, solution in conquering certain infection control issues faced by hospitals, nursing homes, assisted living facilities and other patient environments where chemical or heat alternatives have typically failed to adequately address the problem. The DSU provides for simple implementation without large capital expenses. We have established a goal in 2009 and 2010 to gain a foothold at U.S. and European facilities that seek to become centers of excellence in infection control through the use of our DSU products.

**Pursue our Military Product Development in Conjunction with Value-Adding Partners:** For our military development, we are engaging with strategic allies who offer added value with respect to both new product and marketing opportunities. One of our goals in pursuing this project is to maintain and expand our new product development pipeline and achieve new products suitable for both military and domestic applications.

**Explore Complementary Product Opportunities:** Where appropriate, we are also seeking to leverage our technologies and expertise by applying them to new markets. Our H 2 H has potential applications in acute patient care and controlled provision of ultrapure fluids in the field. Our DSU represents a new and complementary product line to our existing ESRD therapy business; we believe the Nephros DSU can offer a robust solution to a broad range of

contaminated water and infection control issues.

#### Manufacturing and Suppliers

We do not intend to manufacture any of our products or components. We have entered into an agreement dated May 12, 2003, with a contract manufacturer ("CM") to assemble and produce our OLpur MD190, MD220 or other filter products at our option. The agreement requires us to utilize this CM to manufacture the OLpur MD190s and MD220s or other filter products that we directly market in Europe, or are marketed by our distributor. In addition, our CM will be given first consideration in good faith for the manufacture of OLpur MD190s, MD220s or other filter products that we do not directly market. No less than semiannually, our CM will provide a report to representatives of both parties to the agreement detailing any technical know-how that they have developed that would permit them to manufacture the filter products less expensively and both parties will jointly determine the actions to be taken with respect to these findings. If the fiber wastage with respect to the filter products manufactured in any given year exceeds 5%, then the CM will reimburse us up to half of the cost of the quantity of fiber represented by excess wastage. The CM will manufacture the OLpur MD190 or other filter products in accordance with the quality standards outlined in the agreement. Upon recall of any OLpur MD190 or other filter product due to manufactured products that fail to conform to the required specifications or having failed to manufacture one or more products in accordance with any applicable laws, the CM will be responsible for the cost of recall. The agreement also requires that we maintain certain minimum product-liability insurance coverage and that we indemnify our CM against certain liabilities arising out of our products that they manufacture, providing they do not arise out of the CM's breach of the agreement, negligence or willful misconduct. The term of the agreement is through May 12, 2009, with successive automatic one-year renewal terms, until either party gives the other notice that it does not wish to renew at least 90 days prior to the end of the term. The agreement may be terminated prior to the end of the term by either party upon the occurrence of certain insolvency-related events or breaches by the other party. Although we have no separate agreement with respect to such activities, our CM has also been manufacturing our H 2 H filters and DSU in limited quantities.

We also entered into an agreement in December 2003, and amended in June 2005, with a fiber supplier (“FS”), a manufacturer of medical and technical membranes for applications like dialysis, to continue to produce the fiber for the OLpur MDHDF filter series. Pursuant to the agreement, FS is our exclusive provider of the fiber for the OLpur MDHDF filter series in the European Union as well as certain other territories through September 2009. Notwithstanding the exclusivity provisions, we may purchase membranes from other providers if FS is unable to timely satisfy our orders. If and when the volume-discount pricing provisions of our agreement with FS become applicable, for each period we will record inventory and cost of goods sold for our fiber requirements pursuant to our agreement with FS based on the volume-discounted price level applicable to the actual year-to-date cumulative orders at the end of such period. If, at the end of any subsequent period in the same calendar year, actual year-to-date cumulative orders entitle us to a greater volume-discount for such calendar year, then we will adjust inventory and cumulative cost of goods sold amounts quarterly throughout the calendar year to reflect the greater volume-discount. In August 2006, FS awarded us temporary pricing concessions until June 2007. We are currently negotiating with FS regarding pricing for purchases incurred from June 2007 to present, as well as future product pricing.

### Sales and Marketing

We have established our own sales and marketing organization and distributor network to sell ESRD products in our Target European Market and, subject to regulatory approval, intend to establish a similar arrangement in the United States. Our sales and marketing staff has experience in both these geographic areas.

We have established a customer service and financial processing facility in Dublin, Ireland, with multi-lingual customer support available to our customer base in our Target European Market. We have also initiated and completed various clinical studies designed to continue our evaluation of effectiveness of the OLpur MDHDF filters when used on ESRD patients in our Target European Market. These studies are intended to provide us, and have provided us, with valuable information regarding the efficacy of our product and an opportunity to introduce OLpur MDHDF filters to medical institutions in our Target European Market. We have engaged a medical advisor to help us in structuring our clinical study protocols and to support physicians’ technical inquiries regarding our products.

We are marketing our ESRD products primarily to healthcare providers such as hospitals, dialysis clinics, managed care organizations, and nephrology physician groups. We ship our products to these customers both directly from our manufacturer, where this is cost-effective, our distributors, and a public warehouse facility in the U.S.

Our New Jersey office oversees sales and marketing activity of our DSU products. We are in discussions with several medical products and filtration products suppliers to act as non-exclusive distributors of our DSU products to medical institutions. For each prospective market for our DSU products, we are pursuing alliance opportunities for joint product development and distribution. Our DSU manufacturer in Europe shares certain intellectual property rights with us for one of our DSU designs.

### Research and Development

Our research and development efforts continue on several fronts directly related to our current product lines. We have applied, and will continue to apply, if and when available, for U.S. government grants in relation to this research, and will apply for further grants as appropriate. We are also working on additional machine devices, next-generation user interface enhancements and other product enhancements.

In the area of water filtration, we have finalized our initial water filtration product line for the healthcare sector and are looking to develop a point-of-use home water filter product for emergency use such as when municipal water boil alerts are issued. As part of this development, we aim to ensure our water filtration products meet customer needs for various applications. In November 2007, we successfully received a contract to perform research for the Office of

Naval Research estimated at \$866,000 and have been working with the United States Marine Corps Warfighting Laboratory to develop a portable personal water purification system. We have invoiced the Office of Naval Research a total of \$196,000 in 2008 and will continue to do so through the end of the contract period in 2009 for reimbursement of our costs in accordance with the contract. We expect costs to include our internal labor hours worked, material, travel and testing costs incurred, subcontractor costs and indirect costs, subject to contract limitations. In December 2007, the 2008 U.S. Department of Defense Appropriations Act allocated an additional \$2 million to continue the development of our dual stage ultra reliable personal water filtration. We submitted a formal proposal to the Office of Naval Research in February 2009 to secure a contract to use the funds allocated in the 2008 U.S. Department of Defense Appropriations Act.

Our research and development expenditures were primarily related to development expenses associated with the H 2 H machine and salary expense for the years ended December 31, 2008 and 2007 and were \$2,073,000 and \$1,920,000, respectively.



## Competition

The dialyzer and renal replacement therapy market is subject to intense competition. Accordingly, our future success will depend on our ability to meet the clinical needs of physicians and nephrologists, improve patient outcomes and remain cost-effective for payors.

We compete with other suppliers of ESRD therapies, supplies and services. These suppliers include Fresenius Medical Care AG, and Gambro AB, currently two of the primary machine manufacturers in hemodialysis. At present, Fresenius Medical Care AG and Gambro AB also manufacture HDF machines.

The markets in which we sell our dialysis products are highly competitive. Our competitors in the sale of hemodialysis products include Gambro AB, Baxter International Inc., Asahi Kasei Medical Co. Ltd., Bellco S.p.A., a subsidiary of the Sorin group, B. Braun Melsungen AG, Nipro Corporation Ltd., Nikkiso Co., Ltd., Terumo Corporation and Toray Medical Co., Ltd.

Other competitive considerations include pharmacological and technological advances in preventing the progression of ESRD in high-risk patients such as those with diabetes and hypertension, technological developments by others in the area of dialysis, the development of new medications designed to reduce the incidence of kidney transplant rejection and progress in using kidneys harvested from genetically-engineered animals as a source of transplants.

We are not aware of any other companies using technology similar to ours in the treatment of ESRD. Our competition would increase, however, if companies that currently sell ESRD products, or new companies that enter the market, develop technology that is more efficient than ours. We believe that in order to become competitive in this market, we will need to develop and maintain competitive products and take and hold sufficient market share from our competitors. Therefore, we expect our methods of competing in the ESRD marketplace to include:

- continuing our efforts to develop, have manufactured and sell products which, when compared to existing products, perform more efficiently and are available at prices that are acceptable to the market;
- displaying our products and providing associated literature at major industry trade shows in the United States, our Target European Market and Asia;
- initiating discussions with dialysis clinic medical directors, as well as representatives of dialysis clinical chains, to develop interest in our products;
- offering the OLpur H2H at a price that does not provide us with significant positive margins in order to encourage adoption of this product and associated demand for our dialyzers; and
- pursuing alliance opportunities in certain territories for distribution of our products and possible alternative manufacturing facilities.

With respect to the water filtration market, we expect to compete with companies that are well entrenched in the water filtration domain. These companies include Pall Corporation, which manufactures end-point water filtration systems, as well as CUNO (a 3M Company) and US Filter (a Siemens business). Our methods of competition in the water filtration domain include:

- developing and marketing products that are designed to meet critical and specific customer needs more effectively than competitive devices;
  - offering unique attributes that illustrate our product reliability, “user-friendliness,” and performance capabilities;
  - selling products to specific customer groups where our unique product attributes are mission-critical; and
  - pursuing alliance opportunities for joint product development and distribution.

## Intellectual Property

## Patents

We protect our technology and products through patents and patent applications. In addition to the United States, we are also applying for patents in other jurisdictions, such as the European Patent Office, Canada and Japan, to the extent we deem appropriate. We have built a portfolio of patents and applications covering our products, including their hardware design and methods of hemodiafiltration.

We believe that our patent strategy will provide a competitive advantage in our target markets, but our patents may not be broad enough to cover our competitors' products and may be subject to invalidation claims. Our U.S. patents for the "Method and Apparatus for Efficient Hemodiafiltration" and for the "Dual-Stage Filtration Cartridge," have claims that cover the OLpur MDHDF filter series and the method of hemodiafiltration employed in the operation of the products. Although there are pending applications with claims to the present embodiments of the OLpur H 2 H and the OLpur NS2000 products, these products are still in the development stage and we cannot determine if the applications (or the patents that we may issue on them) will also cover the ultimate commercial embodiment of these products. In addition, technological developments in ESRD therapy could reduce the value of our intellectual property. Any such reduction could be rapid and unanticipated. We have applied for patents on our DSU water filtration products to cover various applications in residential, commercial, and remote environments.

As of January 2009, we have fifteen issued U.S. patents; one issued Eurasian patent; three Mexican patents, four South Korean patents, three Russian patents, four Chinese patents, five French patents, five German patents, four Israeli patents, four Italian patents, one Spanish patent, five United Kingdom patents, six Japanese patents, two Hong Kong patents, and five Canadian patents. Our issued U.S. patents expire between 2018 and 2022. In addition, we have four pending U.S. patent applications, ten pending patent applications in Canada, eight pending patent applications in the European Patent Office, five pending patent applications in Brazil, three pending patent applications in China, nine pending patent applications in Japan, three pending patent applications in Mexico, one pending patent application in South Korea, one pending patent application in Hong Kong, two pending patent applications in India, two pending patent applications in Israel and one pending patent application in Australia.. Our pending patent applications relate to a range of dialysis technologies, including cartridge configurations, cartridge assembly, substitution fluid systems, and methods to enhance toxin removal. We also have pending patent applications on our DSU water filtration system.

We have filed U.S. and International patent applications for a redundant ultra filtration device that was jointly invented by one of our employees and an employee of our CM. We and our CM are negotiating commercial arrangements pertaining to the invention and the patent applications.

#### Trademarks

As of December 31, 2008, we secured registrations of the trademarks CENTRAPUR, H2H, OLpur and the Arrows Logo in the European Union. Applications for these trademarks are pending registration in the United States. We also have applications for registration of a number of other marks pending in the United States Patent and Trademark Office.

#### Governmental Regulation

The research and development, manufacturing, promotion, marketing and distribution of our ESRD therapy products in the United States, our Target European Market and other regions of the world are subject to regulation by numerous governmental authorities, including the FDA, the European Union and analogous agencies.

#### United States

The FDA regulates the manufacture and distribution of medical devices in the United States pursuant to the FDC Act. All of our ESRD therapy products are regulated in the United States as medical devices by the FDA under the FDC Act. Under the FDC Act, medical devices are classified in one of three classes, namely Class I, II or III, on the basis of the controls deemed necessary by the FDA to reasonably ensure their safety and effectiveness.

- Class I devices are medical devices for which general controls are deemed sufficient to ensure their safety and effectiveness. General controls include provisions related to (1) labeling, (2) producer registration, (3) defect notification, (4) records and reports and (5) quality service requirements, or QSR.
- Class II devices are medical devices for which the general controls for the Class I devices are deemed not sufficient to ensure their safety and effectiveness and require special controls in addition to the general controls. Special controls include provisions related to (1) performance and design standards, (2) post-market surveillance, (3) patient registries and (4) the use of FDA guidelines.
- Class III devices are the most regulated medical devices and are generally limited to devices that support or sustain human life or are of substantial importance in preventing impairment of human health or present a potential, unreasonable risk of illness or injury. Pre-market approval by the FDA is the required process of scientific review to ensure the safety and effectiveness of Class III devices.

Before a new medical device can be introduced to the market, FDA clearance of a pre-market notification under Section 510(k) of the FDC Act or FDA clearance of a pre-market approval, or PMA, application under Section 515 of the FDC Act must be obtained. A Section 510(k) clearance will be granted if the submitted information establishes that the proposed device is “substantially equivalent” to a legally marketed Class I or Class II medical device or to a Class III medical device for which the FDA has not called for pre-market approval under Section 515. The Section 510(k) pre-market clearance process is generally faster and simpler than the Section 515 pre-market approval process. We understand that it generally takes four to 12 months from the date a Section 510(k) notification is accepted for filing to obtain Section 510(k) pre-market clearance and that it could take several years from the date a Section 515 application is accepted for filing to obtain Section 515 pre-market approval, although it may take longer in both cases.

We expect that all of our ESRD therapy products and our DSU will be categorized as Class II devices and that these products will not require clearance of pre-market approval applications under Section 515 of the FDC Act, but will be eligible for marketing clearance through the pre-market notification process under Section 510(k). We have determined that we are eligible to utilize the Section 510(k) pre-market notification process based upon our ESRD therapy and DSU products’ substantial equivalence to previously legally marketed devices in the United States. However, we cannot assure you:

- that we will not need to reevaluate the applicability of the Section 510(k) pre-market notification process to our ESRD therapy and DSU products in the future;
- that the FDA will agree with our determination that we are eligible to use the Section 510(k) pre-market notification process; or
- that the FDA will not in the future require us to submit a Section 515 pre-market approval application, which would be a more costly, lengthy and uncertain approval process.

The FDA has recently been requiring a more rigorous demonstration of substantial equivalence than in the past and may request clinical data to support pre-market clearance. As a result, the FDA could refuse to accept for filing a Section 510(k) notification made by us or request the submission of additional information. The FDA may determine that any one of our proposed ESRD therapy products is not substantially equivalent to a legally marketed device or that additional information is needed before a substantial equivalence determination can be made. A “not substantially equivalent” determination, or request for additional data, could prevent or delay the market introduction of our products that fall into this category, which in turn could have a material adverse effect on our potential sales and revenues. Moreover, even if the FDA does clear one or all of our products under the Section 510(k) process, it may clear a product for some procedures but not others or for certain classes of patients and not others.

For any devices cleared through the Section 510(k) process, modifications or enhancements that could significantly affect the safety or effectiveness of the device or that constitute a major change to the intended use of the device will require a new Section 510(k) pre-market notification submission. Accordingly, if we do obtain Section 510(k) pre-market clearance for any of our ESRD therapy and DSU products, we will need to submit another Section 510(k) pre-market notification if we significantly affect that product’s safety or effectiveness through subsequent modifications or enhancements.

If human clinical trials of a device are required in connection with a Section 510(k) notification and the device presents a “significant risk,” the sponsor of the trial (usually the manufacturer or distributor of the device) will need to file an IDE application prior to commencing human clinical trials. The IDE application must be supported by data, typically including the results of animal testing and/or laboratory bench testing. If the IDE application is approved, human clinical trials may begin at a specific number of investigational sites with a specific number of patients, as specified in the IDE. Sponsors of clinical trials are permitted to sell those devices distributed in the course of the study provided such compensation does not exceed recovery of the costs of manufacture, research, development and handling. An IDE supplement must be submitted to the FDA before a sponsor or investigator may make a change to the investigational plan that may affect its scientific soundness or the rights, safety or welfare of subjects. We submitted our original IDE application to the FDA for our OLpur H 2 H hemodiafiltration module and OLpur MD220 filter in May 2006. The FDA answered our application with additional questions in June 2006, and we submitted responses to the FDA questions in December 2006. In January 2007, we received conditional approval for our IDE application from the FDA to begin human clinical trials of our OLpur H 2 H hemodiafiltration module and OLpur MD220 hemodiafilter. In March 2007, we received full approval on our IDE application from the FDA to begin human clinical trials of our OLpur H 2 H hemodiafiltration module and OLpur MD220 hemodiafilter. We completed the patient treatment phase of our clinical trials during the second quarter of 2008 and filed our 510(k) applications with respect to the OLpur MDHDF filter series and the OLpur H 2 H module in November 2008. No IDE was required for our DSU product. We hope to achieve U.S. regulatory approval of all products during the first half of 2009. Following its review of our applications, the FDA has requested additional information from us. We replied to the FDA inquiries on March 13, 2009. As of the date of this prospectus, we have not received a response from the FDA.

The Section 510(k) pre-market clearance process can be lengthy and uncertain. It will require substantial commitments of our financial resources and management’s time and effort. Significant delays in this process could occur as a result of factors including:

- our inability to timely raise sufficient funds;
- the FDA's failure to schedule advisory review panels;
- changes in established review guidelines;
- changes in regulations or administrative interpretations; or
- determinations by the FDA that clinical data collected is insufficient to support the safety and effectiveness of one or more of our products for their intended uses or that the data warrants the continuation of clinical studies.

Delays in obtaining, or failure to obtain, requisite regulatory approvals or clearances in the United States for any of our products would prevent us from selling those products in the United States and would impair our ability to generate funds from sales of those products in the United States, which in turn could have a material adverse effect on our business, financial condition, and results of operations.

The FDC Act requires that medical devices be manufactured in accordance with the FDA's current QSR regulations which require, among other things, that:

- the design and manufacturing processes be regulated and controlled by the use of written procedures;

- the ability to produce medical devices which meet the manufacturer's specifications be validated by extensive and detailed testing of every aspect of the process;
- any deficiencies in the manufacturing process or in the products produced be investigated;
- detailed records be kept and a corrective and preventative action plan be in place; and
- manufacturing facilities be subject to FDA inspection on a periodic basis to monitor compliance with QSR regulations.

If violations of the applicable QSR regulations are noted during FDA inspections of our manufacturing facilities or the manufacturing facilities of our contract manufacturers, there may be a material adverse effect on our ability to produce and sell our products.

Before the FDA approves a Section 510(k) pre-market notification, the FDA is likely to inspect the relevant manufacturing facilities and processes to ensure their continued compliance with QSR. Although some of the manufacturing facilities and processes that we expect to use to manufacture our ESRD and DSU filters have been inspected and certified by a worldwide testing and certification agency (also referred to as a notified body) that performs conformity assessments to European Union requirements for medical devices, they have not all been inspected by the FDA. Similarly, although some of the facilities and processes that we expect to use to manufacture our OLpur H 2 H have been inspected by the FDA, they have not all been inspected by any notified body. A "notified body" is a group accredited and monitored by governmental agencies that inspects manufacturing facilities and quality control systems at regular intervals and is authorized to carry out unannounced inspections. Even after the FDA has cleared a Section 510(k) submission, it will periodically inspect the manufacturing facilities and processes for compliance with QSR. In addition, in the event that additional manufacturing sites are added or manufacturing processes are changed, such new facilities and processes are also subject to FDA inspection for compliance with QSR. The manufacturing facilities and processes that will be used to manufacture our products have not yet been inspected by the FDA for compliance with QSR. We cannot assure you that the facilities and processes used by us will be found to comply with QSR and there is a risk that clearance or approval will, therefore, be delayed by the FDA until such compliance is achieved.

In addition to the requirements described above, the FDC Act requires that:

- all medical device manufacturers and distributors register with the FDA annually and provide the FDA with a list of those medical devices which they distribute commercially;
- information be provided to the FDA on death or serious injuries alleged to have been associated with the use of the products, as well as product malfunctions that would likely cause or contribute to death or serious injury if the malfunction were to recur; and
- certain medical devices not cleared with the FDA for marketing in the United States meet specific requirements before they are exported.

#### European Union

The European Union began to harmonize national regulations comprehensively for the control of medical devices in member nations in 1993, when it adopted its Medical Devices Directive 93/42/EEC. The European Union directive applies to both the manufacturer's quality assurance system and the product's technical design and discusses the various ways to obtain approval of a device (dependent on device classification), how to properly CE Mark a device and how to place a device on the market. We have subjected our entire business in our Target European Market to the most comprehensive procedural approach in order to demonstrate the quality standards and performance of our operations, which we believe is also the fastest way to launch a new product in the European Community.

The regulatory approach necessary to demonstrate to the European Union that the organization has the ability to provide medical devices and related services that consistently meet customer requirements and regulatory requirements applicable to medical devices requires the certification of a full quality management system by a notified body. We engaged TÜV Rheinland of North America, Inc. (“TÜV Rheinland”) as the notified body to assist us in obtaining certification to the International Organization for Standardization, or ISO, 13485/2003 standard, which demonstrates the presence of a quality management system that can be used by an organization for design and development, production, installation and servicing of medical devices and the design, development and provision of related services.

European Union requirements for products are set forth in harmonized European Union standards and include conformity to safety requirements, physical and biological properties, construction and environmental properties, and information supplied by the manufacturer. A company demonstrates conformity to these requirements, with respect to a product, by pre-clinical tests, biocompatibility tests, qualification of products and packaging, risk analysis and well-conducted clinical investigations approved by ethics committees.

Once a manufacturer’s full quality management system is determined to be in compliance with ISO 13485/2003 and other statutory requirements, and the manufacturer’s products conform with harmonized European standards, the notified body will recommend and document such conformity. The manufacturer will receive a CE marking and ISO certifications, and then may place a CE mark on the relevant products. The CE mark, which stands for *Conformité Européenne*, demonstrates compliance with the relevant European Union requirements. Products subject to these provisions that do not bear the CE mark cannot be imported to, or sold or distributed within, the European Union.



In July 2003, we received a certification from TÜV Rheinland that our quality management system conforms with the requirements of the European Community. At the same time, TÜV Rheinland approved our use of the CE marking with respect to the design and production of high permeability hemodialyzer products for ESRD therapy. As of the date of filing of this Annual Report, the manufacturing facilities and processes that we are using to manufacture our OLpur MDHDF filter series have been inspected and certified by a notified body.

#### Regulatory Authorities in Regions Outside of the United States and the European Union

We also plan to sell our ESRD therapy products in foreign markets outside the United States which are not part of the European Union. Requirements pertaining to medical devices vary widely from country to country, ranging from no health regulations to detailed submissions such as those required by the FDA. We believe the extent and complexity of regulations for medical devices such as those produced by us are increasing worldwide. We anticipate that this trend will continue and that the cost and time required to obtain approval to market in any given country will increase, with no assurance that such approval will be obtained. Our ability to export into other countries may require compliance with ISO 13485, which is analogous to compliance with the FDA's QSR requirements. Other than the CE marking of our OLpur MDHDF filter products, we have not obtained any regulatory approvals to sell any of our products and there is no assurance that any such clearance or certification will be issued.

#### Reimbursement

In both domestic markets and markets outside of the United States, sales of our ESRD therapy products will depend in part, on the availability of reimbursement from third-party payors. In the United States, ESRD providers are reimbursed through Medicare, Medicaid and private insurers. In countries other than the United States, ESRD providers are also reimbursed through governmental and private insurers. In countries other than the United States, the pricing and profitability of our products generally will be subject to government controls. Despite the continually expanding influence of the European Union, national healthcare systems in its member nations, reimbursement decision-making included, are neither regulated nor integrated at the European Union level. Each country has its own system, often closely protected by its corresponding national government.

#### Product Liability and Insurance

The production, marketing and sale of kidney dialysis products have an inherent risk of liability in the event of product failure or claim of harm caused by product operation. We have acquired product liability insurance for our products in the amount of \$5 million. A successful claim in excess of our insurance coverage could materially deplete our assets. Moreover, any claim against us could generate negative publicity, which could decrease the demand for our products, our ability to generate revenues and our profitability.

Some of our existing and potential agreements with manufacturers of our products and components of our products do or may require us (1) to obtain product liability insurance or (2) to indemnify manufacturers against liabilities resulting from the sale of our products. If we are not able to maintain adequate product liability insurance, we will be in breach of these agreements, which could materially adversely affect our ability to produce our products. Even if we are able to obtain and maintain product liability insurance, if a successful claim in excess of our insurance coverage is made, then we may have to indemnify some or all of our manufacturers for their losses, which could materially deplete our assets.

#### Employees

As of December 31, 2008, we employed a total of 11 employees, 9 of whom were full time and 2 who are employed on a part-time basis. We also engaged 2 consultants on an ongoing basis. Of the 13 total employees and consultants, 5

were employed in a sales/marketing/customer support capacity, 4 in general and administrative and 4 in research and development.

#### PROPERTIES

Our U.S. facilities are located at 41 Grand Avenue, River Edge, New Jersey, 07661 and consist of approximately 4,688 square feet of space. The term of the rental agreement is for three years commencing December 2008 with a monthly cost of approximately \$7,423. We use our facilities to house our corporate headquarters and research facilities.

Our facilities in our Target European Market are currently located at 6 Eaton House, Main Street, Rathcoole, Co. Dublin and consist of approximately 650 square feet of space. The lease agreement was entered into on November 30, 2008. The lease term is 6 months beginning March 1, 2009 and is renewable based on business views. Our monthly cost will be 735 Euro (approximately \$1,000). We use our facilities to house our accounting, operations and customer service departments. We believe this space will be adequate to meet our needs. We do not own any real property for use in our operations or otherwise.

#### LEGAL PROCEEDINGS

A former employee in France filed a claim in October 2008 stating that he is due 30,000 Euro or approximately \$42,000 in back wages. The individual left the Company four years ago and signed a Separation Agreement which stated the Company had no further liability to the individual. Our attorney has advised us that the Separation Agreement is valid and should preclude us from having any liability. A judgment dated October 15, 2009 was issued by a French court whereby the claimant was awarded 11,707 Euro. The judgment is subject to appeal. An accrual of \$18,000 has been recorded as of September 30, 2009 to cover this liability.

A former employee in the United States filed a claim in March 2009 against us and our CEO alleging breach of the individual's employment agreement and fraud. The individual was employed with us from April 2008 through January 8, 2009. The claim was settled as of September 30, 2009 for approximately \$11,000. An accrual of \$6,000 has been recorded as of September 30, 2009.

A third party has brought a claim against us alleging they incurred damages as a result of its cancellation of a transaction in 2008 involving the sale of auction rate securities. The claim has been referred to a Financial Industry Regulatory Authority (FINRA) binding arbitration panel and is scheduled to be heard in March 2010. There is no specific amount of damages identified in the claim. We deny that a transaction agreement had been reached and deny any liability involving this claim. No contingent loss accrual has been recorded by us as of September 30, 2009.

There are no other currently pending legal proceedings and, as far as we are aware, no governmental authority is contemplating any proceeding to which we are a party or to which any of our properties is subject.

## MARKET FOR COMMON STOCK, AND RELATED STOCKHOLDER MATTERS

The Company was informed on January 22, 2009 that the AMEX had suspended trading of the Company's common stock effective immediately. Until such date, our common stock had been trading on the AMEX under the symbol NEP. The following table sets forth the high and low sales prices for our common stock as reported on the AMEX for each quarter within the years ended December 31, 2008 and 2009.

Quarter Ended	High	Low
March 31, 2008	\$ 1.60	\$ .33
June 30, 2008	\$ .97	\$ .50
September 30, 2008	\$ .65	\$ .24
December 31, 2008	\$ .48	\$ .05
March 31, 2009	\$ .25	\$ .04
June 30, 2009	\$ 1.77	\$ .01
September 30, 2009	\$ 2.63	\$ .99
December 31, 2009	\$ 1.75	\$ 0.61

Effective February 4, 2009, our common stock began being quoted on the OTC Bulletin Board under the symbol "NEPH.OB".

As of January 15, 2010, there were approximately 37 holders of record and approximately 850 beneficial holders of our common stock. On January 20, 2010, the last reported sale price of our common stock was \$0.91 per share.

The following table provides information as of December 31, 2009 about compensation plans under which shares of our common stock may be issued to employees, consultants or members of our Board of Directors upon exercise of options or warrants under all of our existing equity compensation plans, and warrants issued to placement agents in connection with our 2007 financing. Our existing equity compensation plans consist of our Amended and Restated Nephros 2000 Equity Incentive Plan and our Nephros, Inc. 2004 Stock Incentive Plan (together, our "Stock Option Plans") in which all of our employees and directors are eligible to participate. Our Stock Option Plans and the issuance of the placement agent warrants were approved by our stockholders.

Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	(b) Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (a))
Equity compensation plans approved by stockholders:			
Stock Option Plans	1,885,782	\$0.86	1,953,101
Placement Agent Warrants	129,681	\$0.70	—
Equity compensation plans not approved by stockholders	—	—	—
All plans	2,015,463		1,953,101

## MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

### Business Overview

Founded in 1997, we are a Delaware corporation that has been engaged primarily in the development of hemodiafiltration, or HDF, products and technologies for treating patients with End Stage Renal Disease, or ESRD. In January 2006, we introduced our new Dual Stage Ultrafilter (the "DSU") water filtration system, which represents a new and complementary product line to our existing ESRD therapy business.

We currently have three products in various stages of development in the HDF modality to deliver improved therapy to ESRD patients:

- OLpur MDHDF filter series (which we sell in various countries in Europe and currently consists of our MD190 and MD220 diafilters); to our knowledge, the only filter designed expressly for HDF therapy and employing our proprietary Mid-Dilution Diafiltration technology;
- OLpur H2H, our add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy; and
  - OLpur NS2000 system, our stand-alone HDF machine and associated filter technology.

We have also developed our OLpur HD 190 high-flux dialyzer cartridge, which incorporates the same materials as our OLpur MD series but does not employ our proprietary Mid-Dilution Diafiltration technology. Our OLpur HD190 was designed for use with either hemodialysis or hemodiafiltration machines, and received its approval from the U.S. Food and Drug Administration, or FDA, under Section 510(k) of the Food, Drug and Cosmetic Act, or the FDC Act, in June 2005.

We believe that products in our OLpur MDHDF filter series are more effective than any products currently available for ESRD therapy because they are better at removing certain larger toxins (known in the industry as “middle molecules” because of their heavier molecular weight) from blood. The accumulation of middle molecules in the blood has been related to such conditions as malnutrition, impaired cardiac function, carpal tunnel syndrome, and degenerative bone disease in the ESRD patient. We also believe that OLpur H2H will, upon introduction, expand the use of HDF as a cost-effective and attractive alternative for ESRD therapy, and that, if approved by the FDA in 2009, our OLpur H2H and MDHDF filters will be the first, and only, HDF therapy, approved by the FDA, available in the United States at that time.

We believe that our products will reduce hospitalization, medication and care costs as well as improve patient health (including reduced drug requirements and improved blood pressure profiles), and therefore, quality of life, by removing a broad range of toxins through a more patient-friendly, better-tolerated process. In addition, independent studies in Europe have indicated that, when compared with dialysis as it is currently offered in the United States, HDF can reduce the patient’s mortality risk by up to 35%. We believe that the OLpur MDHDF filter series and the OLpur H2H will provide these benefits to ESRD patients at competitive costs and without the need for ESRD treatment providers to make significant capital expenditures in order to use our products. We also believe that the OLpur NS2000 system, if successfully developed, will be the most cost-effective stand-alone hemodiafiltration system available.

During the three months ended September 30, 2009, Nephros was granted four new patents. In the U.S., the company was issued patent #7,534,349 for a Dual Stage Ultrafilter with pump mechanism and/or shower feature. In Canada, the company was issued patent #2,430,575 for a valve mechanism used in Infusion Fluid systems which is a feature used on our H2HTM module and patent #2,396,852 for an Ionic Enhanced Dialysis/Diafiltration system which is related to mid-dilution HDF. In China, the company was issued patent #200510092067.3 for a Dual Stage Hemodiafiltration cartridge used in its OLpur<sup>TM</sup> MD HDF Filter.

Since our inception, we have incurred annual net losses. As of December 31, 2008, we had an accumulated deficit of \$87,949,000, at September 30, 2009, we had an accumulated deficit of \$89,492,000, and we expect to incur additional losses in the foreseeable future. We recognized net losses of \$6,337,000 and \$26,356,000 for the years ended December 31, 2008 and 2007, respectively, and \$1,543,000 for the nine months ended September 30, 2009.

Since our inception, we have financed our operations primarily through sales of our equity and debt securities. From inception through September 30, 2009, we received net offering proceeds from private sales of equity and debt securities and from the initial public offering of our common stock (after deducting underwriters’ discounts, commissions and expenses, and our offering expenses) of approximately \$52.0 million in the aggregate. We raised gross proceeds of \$1,251,000 in a private placement in July 2009.

The following trends, events and uncertainties may have a material impact on our potential sales, revenue and income from operations:

- 1) the completion and success of additional clinical trials;
- 2) receiving regulatory approval for each of our ESRD therapy products and our DSU product in our target territories;
- 3) the market acceptance of HDF therapy in the United States and of our technologies and products in each of our target markets;
- 4) our ability to effectively and efficiently manufacture, market and distribute our products;
- 5) our ability to sell our products at competitive prices which exceed our per unit costs;
- 6) the consolidation of dialysis clinics into larger clinical groups; and
- 7) the current U.S. healthcare plan is to bundle reimbursement for dialysis treatment which may force dialysis clinics to change therapies due to financial reasons.



To the extent we are unable to succeed in accomplishing (1) through (7), our sales could be lower than expected and dramatically impair our ability to generate income from operations. With respect to (6), the impact could either be positive, in the case where dialysis clinics consolidate into independent chains, or negative, in the case where competitors acquire these dialysis clinics and use their own products, as competitors have historically tended to use their own products in clinics they have acquired.

#### NYSE Alternext US LLC (formerly, the American Stock Exchange or “AMEX”) Issues

On September 27, 2007, we received a warning letter from the AMEX stating that the staff of the AMEX Listing Qualifications Department had determined that we were not in compliance with Section 121B(2)(c) of the AMEX Company Guide requiring that at least 50% of the directors of our Company’s board of directors are independent directors. This non-compliance was due to the fact that William J. Fox, Judy Slotkin, W. Townsend Ziebold and Howard Davis resigned from our board of directors on September 19, 2007, concurrently with the appointment of Paul Mieyal and Arthur Amron to the board of directors, in accordance with our September 2007 financing. Consequently, our board of directors consisted of five directors, two of whom were independent. The AMEX had given us until December 26, 2007 to regain compliance with the independence requirements. On November 16, 2007, James S. Scibetta was appointed to serve as an independent director on our board of directors. On December 5, 2007, we received a letter from the AMEX acknowledging that we had resolved the continued listing deficiency identified in their September 27, 2007 letter.

On September 12, 2008, we received a letter from the AMEX notifying us of our noncompliance with certain continued listing standards. The following are the listing standards that we were in noncompliance of:

- Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders’ equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;
- Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders’ equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and
- Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

In response to that letter, we submitted a plan of compliance to the AMEX on October 13, 2008 advising the AMEX of the actions we have taken, or will take, that would bring us into compliance with the continued listing standards by April 30, 2009.

Subsequent to December 31, 2008, on January 8, 2009, we received a letter from the AMEX notifying us that it was rejecting our plan. The AMEX further notified us that the AMEX intends to strike the common stock from the AMEX by filing a delisting application with the Securities and Exchange Commission pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, we have decided not to seek an appeal of the AMEX’s intention to delist our common stock.

On January 22, 2009, we were informed by the AMEX that the AMEX had suspended trading in our common stock effective immediately. Immediately following the notification, our common stock was no longer traded on the AMEX.

Effective February 4, 2009, our common stock is now quoted on the Over the Counter (“OTC”) Bulletin Board under the symbol “NEPH.OB”.



In a letter dated April 13, 2009, we received a copy of the AMEX's application to strike our common stock from the AMEX.

#### Recent Accounting Pronouncements

In June 2009, the Financial Accounting Standards Board ("FASB") issued SFAS No. 168, The FASB Accounting Standards Codification™ and the Hierarchy of Generally Accepted Accounting Principles—a replacement of FASB Statement No. 162 ("SFAS 168"). The statement confirmed that the FASB Accounting Standards Codification (the "Codification") will become the single official source of authoritative U.S. GAAP (other than guidance issued by the SEC), superseding existing FASB, American Institute of Certified Public Accountants, Emerging Issues Task Force ("EITF"), and related literature. After that date, only one level of authoritative U.S. GAAP will exist. All other literature will be considered non-authoritative. The Codification does not change U.S. GAAP; instead, it introduces a new structure that is organized in an easily accessible, user-friendly online research system. The Codification, which changes the referencing of financial standards, becomes effective for interim and annual periods ending on or after September 15, 2009. We will apply the Codification beginning in the third quarter of fiscal 2009. The adoption of SFAS 168 is not expected to have any substantive impact on our condensed consolidated financial statements or related footnotes. We have not changed the references to FASB Statements in this discussion to the appropriate Codification references.

In September 2006, the FASB issued SFAS No. 157, Fair Value Measurements ("No. 157"). This statement defines fair value, establishes a framework for measuring fair value in generally accepted accounting principles and expands disclosures about fair value measurements. SFAS No. 157 does not require any new fair value measurements but rather eliminates inconsistencies in guidance found in various prior accounting pronouncements and was effective for fiscal years beginning after November 15, 2007. In February 2008, the FASB issued FASB Staff Position No. 157-2 ("FSP No. 157-2"). FSP No. 157-2 delays the effective date of SFAS No. 157 for all nonfinancial assets and nonfinancial liabilities, except those that are recognized or disclosed at fair value in the financial statements on a recurring basis (at least annually), until fiscal years beginning after November 15, 2008 and interim periods within those fiscal years. These nonfinancial items include assets and liabilities such as reporting units measured at a fair value in a goodwill impairment test and nonfinancial assets acquired and liabilities assumed in a business combination. Effective January 1, 2008, we adopted SFAS No. 157 for financial assets and liabilities recognized at fair value on a recurring basis, and on January 1, 2009, we fully adopted SFAS No. 157. Upon full adoption, SFAS No. 157 had no effect on our financial position, results of operations and cash flows.

In December 2007, the FASB issued SFAS No. 141 (revised 2007), Business Combinations ("No. 141R"). This statement establishes requirements for (i) recognizing and measuring in an acquiring company's financial statements the identifiable assets acquired, the liabilities assumed and any noncontrolling interest in the acquiree, (ii) recognizing and measuring the goodwill acquired in the business combination or a gain from a bargain purchase and (iii) determining what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. The provisions of SFAS No. 141R are effective for business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. Upon adoption, SFAS No. 141R had no effect on our financial position, results of operations and cash flows.

In April 2009, the FASB issued FSP SFAS 141R-1 "Accounting for Assets Acquired and Liabilities Assumed in a Business Combination That Arise from Contingencies" ("FSP SFAS 141R-1"). FSP SFAS 141R-1 amends the provisions in SFAS No. 141 (R) for the initial recognition and measurement, subsequent measurement and accounting, and disclosures for assets and liabilities arising from contingencies in business combinations. FSP SFAS 141R-1 eliminates the distinction between contractual and non-contractual contingencies, including the initial recognition and measurement criteria in Statement 141 (R) and instead carries forward most of the provisions in SFAS 141 for acquired contingencies. FSP SFAS 141R-1 is effective for assets or liabilities arising from contingencies in business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. The Company is currently evaluating the impact of the adoption of FSP SFAS 141R-1 will have on its consolidated financial statements

On May 28, 2009, the FASB issued Financial Accounting Standards No. 165, Subsequent Events (“SFAS No. 165”), which we adopted on a prospective basis beginning April 1, 2009. SFAS No. 165 is intended to establish general standards of accounting and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. It requires the disclosure of the date through which an entity has evaluated subsequent events and the basis for selecting that date. The application of SFAS No. 165 did not have an impact on our consolidated financial position, results of operations or cash flows.

In April 2009, the Financial Accounting Standards Board (“FASB”) issued FASB Staff Position (“FSP”) FAS 157-4, Determining Fair Value when the Volume and Level of Activity for the Asset or Liability have Significantly Decreased and Identifying Transactions that are not Orderly (“FSP 157-4”), which is effective for the Company for interim and annual reporting periods ending after June 15, 2009, and shall be applied prospectively. FSP 157-4 affirms that the objective of fair value when the market for an asset is not active is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date under current market conditions. The FSP provides guidance for estimating fair value when the volume and level of market activity for an asset or liability have significantly decreased and determining whether a transaction was orderly. This FSP applies to all fair value measurements when appropriate. The adoption of FSP 157-4 did not have a significant impact on the Company’s financial statements or related footnotes.

In April 2009, the FASB issued FSP FAS 115-2 and FAS 124-2, Recognition and Presentation of Other-Than-Temporary Impairments (“FSP 115-2”), which is effective for the Company for interim and annual reporting periods ending after June 15, 2009. FSP 115-2 amends existing guidance for determining whether an other than temporary impairment of debt securities has occurred. Among other changes, the FASB replaced the existing requirement that an entity’s management assert it has both the intent and ability to hold an impaired security until recovery with a requirement that management assert (a) it does not have the intent to sell the security, and (b) it is more likely than not it will not have to sell the security before recovery of its cost basis. The Company has no debt as of September 30, 2009 therefore, FSP FAS 115-2 and FAS 124-2, Recognition and Presentation of Other-Than-Temporary Impairments (“FSP 115-2”) has no impact on its September 30, 2009 financial statements.

In April 2009, the FASB issued FSP FAS 107-1 and APB 28-1, Interim Disclosures about Fair Value of Financial Instruments (“FSP 107-1”), which is effective for the Company for the quarterly period beginning April 1, 2009. FSP 107-1 requires an entity to provide the annual disclosures required by FASB Statement No. 107, Disclosures about Fair Value of Financial Instruments, in its interim financial statements. The Company has provided the disclosures required by FSP 107-1 in its quarterly report on Form 10-Q for the period ended September 30, 2009 in Note 8 - Fair Value of Financial Instruments.

#### Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of financial statements in accordance with generally accepted accounting principles in the United States requires application of management’s subjective judgments, often requiring the need to make estimates about the effect of matters that are inherently uncertain and may change in subsequent periods. Our actual results may differ substantially from these estimates under different assumptions or conditions. While our significant accounting policies are described in more detail in the notes to consolidated financial statements included in this prospectus, we believe that the following accounting policies require the application of significant judgments and estimates.

#### Financial Operations Overview

**Revenue Recognition:** Revenue is recognized in accordance with SAB 101, “Revenue Recognition in Financial Statements” (“SAB 101”), as amended by SAB 104. SAB 101 requires that four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed and determinable; and (iv) collectability is reasonably assured.

**Cost of Goods Sold:** Cost of goods sold represents the acquisition cost for the products we purchase from our third party manufacturers as well as damaged and obsolete inventory written off.

**Research and Development:** Research and development expenses consist of costs incurred in identifying, developing and testing product candidates. These expenses consist primarily of salaries and related expenses for personnel, fees of our scientific and engineering consultants and subcontractors and related costs, clinical studies, machine and product parts and software and product testing. We expense research and development costs as incurred.

**Selling, General and Administrative:** Selling, general and administrative expenses consist primarily of sales and marketing expenses as well as personnel and related costs for general corporate functions, including finance, accounting, legal, human resources, facilities and information systems expense.

#### Revenue Recognition

Revenue is recognized in accordance with Securities and Exchange Commission Staff Accounting Bulletin, or SAB, No. 104 Revenue Recognition. SAB No. 104 requires that four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed and determinable; and (iv) collectibility is reasonably assured.

The Company recognizes revenue related to product sales when delivery is confirmed by its external logistics provider and the other criterion of SAB No. 104 are met. Product revenue is recorded net of returns and allowances. All costs and duties relating to delivery are absorbed by Nephros. All shipments are currently received directly by the Company's customers.

### Stock-Based Compensation

We account for stock-based compensation under the provisions of SFAS No. 123 (Revised 2004) “Share-Based Payment” (“SFAS 123R”). SFAS 123R requires the recognition of the fair value of stock-based compensation in net income. The fair value of our stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that we estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based awards is amortized over the vesting period of the award. For stock awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

### Accounts Receivable

We provide credit terms to our customers in connection with purchases of our products. We periodically review customer account activity in order to assess the adequacy of the allowances provided for potential collection issues and returns. Factors considered include economic conditions, each customer’s payment and return history and credit worthiness. Adjustments, if any, are made to reserve balances following the completion of these reviews to reflect our best estimate of potential losses.

### Inventory Reserves

Our inventory reserve requirements are based on factors including the products’ expiration date and estimates for the future sales of the product. If estimated sales levels do not materialize, we will make adjustments to its assumptions for inventory reserve requirements.

### Accrued Expenses

We are required to estimate accrued expenses as part of our process of preparing financial statements. This process involves identifying services which have been performed on our behalf, and the level of service performed and the associated cost incurred for such service as of each balance sheet date in our financial statements. Examples of areas in which subjective judgments may be required include costs associated with services provided by contract organizations for the preclinical development of our products, the manufacturing of clinical materials, and clinical trials, as well as legal and accounting services provided by professional organizations. In connection with such service fees, our estimates are most affected by our understanding of the status and timing of services provided relative to the actual levels of services incurred by such service providers. The majority of our service providers invoice us monthly in arrears for services performed. In the event that we do not identify certain costs, which have begun to be incurred, or we under- or over-estimate the level of services performed or the costs of such services, our reported expenses for such period would be too low or too high. The date on which certain services commence, the level of services performed on or before a given date and the cost of such services are often determined based on subjective judgments. We make these judgments based upon the facts and circumstances known to us in accordance with generally accepted accounting principles.

### Results of Operations

#### Fluctuations in Operating Results

Our results of operations have fluctuated significantly from period to period in the past and are likely to continue to do so in the future. We anticipate that our annual results of operations will be impacted for the foreseeable future by several factors including the progress and timing of expenditures related to our research and development efforts,

marketing expenses related to product launches, timing of regulatory approval of our various products and market acceptance of our products. Due to these fluctuations, we believe that the period to period comparisons of our operating results are not a good indication of our future performance.

The Fiscal Year Ended December 31, 2008 Compared to the Fiscal Year Ended December 31, 2007

#### Product Revenues

Total product revenues for the year ended December 31, 2008 were \$1,473,000 compared to \$1,196,000 for the year ended December 31, 2007. The \$277,000, or 23.2%, increase is primarily due to \$196,000 related to revenue generated from the Office of Naval Research project in the United States. The Company began work on this project in 2008. An increase of \$33,000 or 3% was related to sales of the OLPūr MD190 and MD220 Dialyzers in Europe. Sales of the OLPūr MD190 and MD220 Dialyzers increased only 1.4% in number of units during 2008 in Europe however, a negative price variance of \$42,000 was incurred due to the sale of reworked units at a discounted price. A favorable currency exchange contributed \$75,000 to the change in 2008 revenue compared to 2007. In addition, revenues in the United States increased by \$49,000 from sales of the Dual Stage Ultrafilter (the "DSU") water filter. The DSU represents a new and complementary product line introduced in 2008 and the Company had no revenues generated from it during 2007.

### Cost of Goods Sold

Cost of goods sold was \$1,064,000 for the year ended December 31, 2008 compared to \$876,000 for the year ended December 31, 2007. The \$188,000, or 21.5%, increase in cost of goods sold is primarily due to an increase of \$141,000 related to the sales of the Dual Stage Ultrafilter (the "DSU") water filters in the United States. The DSU represents a new and complementary product line introduced in 2008. The Company did not recognize any revenue or related cost of goods sold for the year ended December 31, 2007. The cost of the OLpūr MD190 and MD220 Dialyzers sold in Europe for the year ended December 31, 2008 increased by \$47,000, or 5.4%, over the comparable period in 2007. This increase was due to higher manufacturing costs of \$50,000 primarily due to an unfavorable currency exchange offset by a reduction in freight costs of \$3,000 due to the discontinued use of a public warehouse.

### Research and Development

Research and development expenses were \$1,977,000 for the year ended December 31, 2008 compared to \$1,920,000 for the year ended December 31, 2007, an increase of \$57,000 or 3.0%. This increase consists of \$564,000 related to a clinical trial conducted during 2008 and \$17,000 related to development spending for the DSU water filter offset by reductions of \$287,000 in personnel costs and \$241,000 in machine development expenditures during 2008 compared to 2007.

### Depreciation and Amortization Expense

Depreciation expense was \$447,000, for the year ended December 31, 2008 compared to \$352,000 for the year ended December 31, 2007, an increase of \$95,000, or 27.0%. This increase is due to the acquisition of a DSU Mold in 2008, which contributed \$36,000 of depreciation for the year ended December 31, 2008. An additional \$59,000 recorded in 2008 is related to depreciation on furniture and fixtures and tooling to reflect the assessed utility of these assets as of December 31, 2008.

### Selling, General and Administrative Expenses

Selling, general and administrative expenses were \$4,702,000 for the year ended December 31, 2008 compared to \$5,527,000 for the year ended December 31, 2007, a decrease of \$825,000 or 14.9%. The decrease is primarily due to the following:

- Selling expenses were \$624,000 for the year ended December 31, 2008 compared to \$451,000 for the year ended December 31, 2007, an increase of \$173,000, or 38.4%. The increase in personnel costs of \$73,000 and \$100,000 in marketing expenditures during 2008 compared to the comparable period in 2007 were the primary reasons. This increase reflects the Company's investment in Marketing during fiscal year 2008 in order to establish corporate identity, improve the Company's website and advertise the merits of the DSU water filtration system.
- General and administrative expenses were \$4,078,000 for the year ended December 31, 2008 compared to \$5,076,000 for the year ended December 31, 2007, a decrease of \$998,000, or 19.7%, primarily due to factors impacting professional service fees and compensation expense. The decrease is due to the following reductions in 2008 spending compared to 2007: personnel costs reduced by \$150,000; deferred compensation costs reduced by \$433,000; audit and legal fees reduced by \$524,000; underwriting fees reduced by \$140,000. These decreases were offset by the following increases in 2008 spending compared to 2007: recruiting fees of \$148,000; directors' fees of \$46,000; regulatory fees of \$34,000; insurance fees of \$27,000; facility costs of \$20,000 and moving costs of \$16,000.

### Interest Income

Interest income was \$199,000 for the year ended December 31, 2008 compared to \$138,000 for the year ended December 31, 2007. The increase of \$61,000, or 44%, reflects the impact of having additional cash on hand during 2008 compared to 2007. The additional cash resulted from the private investment in public equity executed in September 2007.

#### Interest Expense

No interest expense was incurred during 2008 as a result of the Company not having any outstanding debt during the fiscal 2008. Interest expense totaled \$535,000 for the year ended December 31, 2007. The related debt was converted to equity as a result of the private investment in public equity that was executed in September 2007.

Interest expense for the year ended December 31, 2007 consisted of:

- \$498,000 in connection with the New Notes;
- \$37,000 associated with the present value impact of \$400,000 of payments made during such period under our settlement agreement with the Receiver for Lancer Offshore, Inc.;

#### Amortization of Beneficial Conversion Feature

There was no amortization of beneficial conversion feature for the year ended December 31, 2008.



Expense due to amortization of beneficial conversion feature for the year ended December 31, 2007 consisted of beneficial conversion features of \$13,429,000 associated with the Series A and Series B 10% Secured Convertible Notes due 2008 (the "New Notes"). The beneficial conversion feature is the difference between the conversion price of the New Notes (\$0.706 per share) and the market price of our common stock on the commitment date (\$1.35 per share) multiplied by the number of shares to be received on conversion of the note. The beneficial conversion feature is amortized over the life of the note or expensed in total at the time the note is converted into stock. Since the New Notes were both issued and converted in full during fiscal 2007, we expensed the entire beneficial conversion feature associated with the New Notes during such period.

#### Amortization of Debt Discount

There was no amortization of debt discount for the year ended December 31, 2008.

Amortization of debt discount totaled \$4,556,000 for the year ended December 31, 2007. Amortization of debt discount for the year ended December 31, 2007 consisted of amortization of the debt discounts on the New Notes of \$4,548,000 and amortization of the debt discount on the 6% Secured Convertible Notes due 2012 (the "Old Notes") of \$8,000. The value assigned to the warrants attached to the Series A notes is recorded as a discount on the notes they are attached to. The Series B note issued in exchange for the Old Notes was recorded at a discount to record the New Note at fair market value. The debt discounts are amortized over the life of the notes or expensed in total at the time the note is converted into stock. Since the New Notes were both issued and converted in full during fiscal 2007, we expensed the entire debt discount associated with the New Notes during such period.

#### Amortization of Deferred Financing Costs

There was no amortization of deferred financing costs for the year ended December 31, 2008.

Amortization of deferred financing costs totaled \$992,000 for the year ended December 31, 2007.

#### Impairment of Auction Rate Securities and Gain on sale of investments

The Company invested in auction rate securities ("ARS") which are long-term debt instruments with interest rates reset through periodic short-term auctions. If there are insufficient buyers when such a periodic auction is held, then the auction "fails" and the holders of the ARS are unable to liquidate their investment through such auction. With the liquidity issues experienced in global credit and capital markets, the ARS held by the Company have experienced multiple failed auctions since February 2008, and as a result, the Company did not consider these affected ARS liquid in the first quarter of 2008. Accordingly, while the Company had classified its ARS as current assets at December 31, 2007, the Company reclassified them as noncurrent assets at March 31, 2008.

Based upon an analysis of other-than-temporary impairment factors, the Company wrote down ARS with an original par value of \$4,400,000 to an estimated fair value of \$4,286,000 as of March 31, 2008. The Company reviewed impairments associated with the above in accordance with Emerging Issues Task Force (EITF) 03-1 and FSP SFAS 115-1/124-1, "The Meaning of Other-Than-Temporary-Impairment and Its Application to Certain Investments," to determine the classification of the impairment as "temporary" or "other-than-temporary." The Company determined the ARS classification to be "other-than-temporary," and charged an impairment loss of \$114,000 on the ARS to its results of operations for the three months ended March 31, 2008.

During the three months ended June 30, 2008, \$300,000 of principal on the Company's ARS had been paid back by the debtor, resulting in the Company's investment in ARS having decreased from \$4,400,000 to \$4,100,000 (par value) at June 30, 2008. The net book value of the Company's ARS at June 30, 2008 was \$3,986,000 million, due to the

approximate \$114,000 impairment recorded at March 31, 2008. On July 22, 2008 the Company sold its ARS to a third party at 100% of par value, for proceeds of \$4,100,000. The Company reclassified the ARS from Available-for-Sale to Trading Securities due to the sale of the investments in July 2008.

In accordance with SFAS No. 115, "Accounting for Certain Investments in Debt and Equity Securities," ("SFAS 115") the ARS, classified as Trading Securities, are valued at their fair value of \$4,100,000 at June 30, 2008. The adjustment of the investment's carrying value from \$3,986,000 net book value to \$4,100,000 fair value resulted in an Unrealized Holding Gain of \$114,000 which is included in the Company's Statement of Operations for the three and six months ended June 30, 2008.

We subsequently reversed the Unrealized Holding Gain and recorded a Realized Gain on Sale of Investments of \$114,000 in July 2008 when the sale transaction was executed.

There was no impairment of auction rate securities or gain on sale of investments for the year ended December 31, 2007.

#### Gain on Exchange of Debt

There was no gain on exchange of debt for the year ended December 31, 2008.

For the year ended December 31, 2007, the gain on exchange of debt includes \$330,000 for the gain realized on debt extinguishment which includes a gain on exchange of the Old Notes of \$254,000 and a gain of \$76,000 on the cancellation of the warrants that could have been issued upon certain prepayments of the Old Notes by the Company.

#### Other Income and Expenses

Other income of \$181,000 was recorded for the year ended December 31, 2008 and includes the impact of \$147,000 for refunds received from New York State for business credits as Nephros qualifies as a Qualified Emerging Technology Company ("QETC") and \$34,000 of additional other income.

Other income of \$167,000 was recorded for the year ended December 31, 2007 and includes the impact of \$261,000 for refunds received from New York State for business credits as Nephros qualifies as a QETC and other expenses of \$94,000. The other expenses are comprised of the impact of the nine month gain on change in valuation of the derivative liability of \$7,000 and \$87,000 in expenses associated with the collection of the QETC tax credit.

#### Off-Balance Sheet Arrangements

We did not engage in any off-balance sheet arrangements during the periods ended December 31, 2008 and December 31, 2007 or the nine months ended September 30, 2009 and 2008.

#### Going Concern and Management's Response

The financial statements included in this prospectus have been prepared assuming that we will continue as a going concern, however, there can be no assurance that we will be able to do so. Our recurring losses and difficulty in generating sufficient cash flow to meet our obligations and sustain our operations raise substantial doubt about our ability to continue as a going concern. Our consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

We have incurred significant losses in our operations in each year since inception. For the years ended December 31, 2008 and 2007, we have incurred a net loss of \$6,337,000 and \$26,356,000, respectively. In addition, we have not generated positive cash flow from operations for the year ended December 31, 2008 and 2007. To become profitable, we must increase revenue substantially and achieve and maintain positive gross and operating margins. If we are not able to increase revenue and gross and operating margins sufficiently to achieve profitability, our results of operations and financial condition will be materially and adversely affected.

At December 31, 2008, we had \$2,306,000 in cash and cash equivalents. However there can be no assurance that our cash and cash equivalents will provide the liquidity we need to continue our operations. These operating plans primarily include the continued development and support of our business in the European market, organizational changes necessary to begin the commercialization of our water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation.

There can be no assurance that our future cash flow will be sufficient to meet our obligations and commitments. If we are unable to generate sufficient cash flow from operations in the future to service our commitments we will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing our planned activities or ceasing our operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable us to continue to satisfy our capital requirements.

We continue to investigate additional funding opportunities, talking to various potential investors who could provide financing. However, there can be no assurance that we will be able to obtain further financing, do so on reasonable

terms or do so on terms that would not substantially dilute your equity interests in us.

In addition, on September 12, 2008, we received a letter from the NYSE Alternext US LLC (formerly, the American Stock Exchange or "AMEX") notifying us of our noncompliance with certain continued listing standards. The following are the listing standards that we were in noncompliance of:

- Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;
- Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and
- Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

In response to that letter, we submitted a plan of compliance to the AMEX on October 13, 2008 advising the AMEX of the actions we have taken, or will take, that would bring us into compliance with the continued listing standards by April 30, 2009.

Subsequent to December 31, 2008, on January 8, 2009, we received a letter from the AMEX notifying us that it was rejecting our plan. The AMEX further notified us that the AMEX intends to strike the common stock from the AMEX by filing a delisting application with the Securities and Exchange Commission pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, we have decided not to seek an appeal of the AMEX's intention to delist our common stock.

On January 22, 2009, we were informed by the AMEX that the AMEX had suspended trading in our common stock effective immediately. Immediately following the notification, our common stock was no longer traded on the AMEX.

Effective February 4, 2009, our common stock is now quoted on the Over the Counter ("OTC") Bulletin Board under the symbol "NEPH.OB".

Three Months Ended September 30, 2009 Compared to the Three Months Ended September 30, 2008

#### Product Revenues

Net product revenues were approximately \$711,000 for the three months ended September 30, 2009 compared to approximately \$393,000 for the three months ended September 30, 2008, an increase of 81%. The \$318,000 increase in net product revenues is due to: increased water filter sales of \$98,000; increased military project revenue of \$172,000 and increased blood filter sales in Europe of \$48,000.

#### Cost of Goods Sold

Cost of goods sold ("COGS") was approximately \$463,000 for the three months ended September 30, 2009 compared to approximately \$254,000 for the three months ended September 30, 2008. The increase of approximately \$209,000, or 82%, in cost of goods sold is primarily due to: increased water filter COGS of \$32,000; increased military project COGS of \$129,000 and increased blood filter COGS of \$48,000. All increases were due to the increased sales or activities in these areas.

#### Research and Development

Research and development expenses were approximately \$62,000 for the three months ended September 30, 2009 compared to approximately \$191,000 for the three months ended September 30, 2008, a decrease of 68% due primarily to our planned reduction of activities to conserve our resources. This decrease of \$129,000 is primarily due to: decreased salaries of \$25,000; decreased supplies of \$59,000; decreased machine development expense of \$34,000; and decreased testing expenses of \$11,000.

#### Depreciation Expense

Depreciation expense was approximately \$53,000 for the three months ended September 30, 2009 compared to approximately \$84,000 for the three months ended September 30, 2008, a decrease of 37%. The decrease of approximately \$31,000 is primarily due to several assets having been fully depreciated as of year end 2008 resulting in no depreciation expense for those assets during the three months ended September 30, 2009. There was not a significant disposition of assets during the three months ended September 30, 2009 compared to the same period in 2008.

#### Selling, General and Administrative Expenses

Selling, general and administrative expenses were approximately \$676,000 for the three months ended September 30, 2009 compared to approximately \$1,242,000 for the three months ended September 30, 2008, a decrease of \$566,000 or 46%. The decrease reflects a reduction in: compensation and benefits of \$389,000; recruiting fees of \$55,000; marketing expenses of \$50,000; insurance expense of \$52,000 and legal expenses of \$20,000 for the three months ended September 30, 2009 compared to the same period in 2008. The decreases were primarily due to our reduced headcount and operations to conserve our resources.

#### Interest Income

Interest income was approximately \$2,000 for the three months ended September 30, 2009 compared to approximately \$27,000 for the three months ended September 30, 2008. The decrease of approximately \$25,000 is due to the decreased investments held during the three months ended September 30, 2009 compared to the three months ended September 30, 2008.

#### Interest Expense

There was no interest expense for the three months ended September 30, 2009 or September 30, 2008.

#### Other income and expenses

Other income in the amount of approximately \$146,000 for the three months ended September 30, 2009 resulted primarily from receipt of 2007 New York State Qualified Emerging Technology Company ("QETC") tax refunds. Other income for the three months ended September 30, 2008 was approximately \$5,000.

#### Nine Months Ended September 30, 2009 Compared to the Nine Months Ended September 30, 2008

#### Revenues

Total revenues for the nine months ended September 30, 2009 were approximately \$1,869,000 compared to approximately \$1,033,000 for the nine months ended September 30, 2008. Total revenues increased approximately

\$836,000 or 81%. The increase in net product revenues is due to increased water filter sales of \$190,000; increased military project revenue of \$684,000 and decreased blood filter sales in Europe of \$38,000.

### Cost of Goods Sold

Cost of goods sold was approximately \$1,251,000 for the nine months ended September 30, 2009 compared to approximately \$654,000 for the nine months ended September 30, 2008. The increase of approximately \$597,000, or 91%, in cost of goods sold is primarily due to: increased water filter COGS of \$43,000; increased military project COGS of \$521,000 and increased blood filter COGS of \$33,000. All increases were due to the increased sales and activities in these areas.

### Research and Development

Research and development expenses were approximately \$212,000 for the nine months ended September 30, 2009 compared to approximately \$2,072,000 for the nine months ended September 30, 2008, a decrease of 90%, due primarily to our planned reduction of activities to conserve our resources. This decrease of \$1,860,000 is primarily due to the fact that there was no clinical trial being conducted in the nine months ended September 30, 2009 compared to the same period in 2008. The decreased spending related to: decreased clinical trial expense of \$1,060,000; decreased salaries of \$567,000; decreased supplies of \$102,000 decreased machine development expense of \$92,000; decreased testing expenses of \$26,000 and decreased computer software development expenses of \$13,000.

### Depreciation Expense

Depreciation expense was approximately \$190,000 for the nine months ended September 30, 2009 compared to approximately \$255,000 for the nine months ended September 30, 2008, a decrease of 25%. The decrease of approximately \$65,000 is primarily due to several assets having been fully depreciated as of year end 2008 resulting in no depreciation expense for those assets during the nine months ended September 30, 2009.

### Selling, General and Administrative Expenses

Selling, general and administrative expenses were approximately \$2,093,000 for the nine months ended September 30, 2009 compared to approximately \$3,830,000 for the nine months ended September 30, 2008, a decrease of \$1,737,000 or 45%. The decrease reflects a reduction in: compensation and benefits of \$990,000; recruiting fees of \$186,000; professional fees of \$54,000; legal fees of \$289,000; insurance expense of \$110,000, and facilities expense of \$108,000 for the nine months ended September 30, 2009 compared to the same period in 2008. The decreases were due primarily to our planned reduction in headcount and operations to conserve our resources.

### Interest Income

Interest income was approximately \$8,000 for the nine months ended September 30, 2009 compared to approximately \$185,000 for the nine months ended September 30, 2008. The decrease of approximately \$177,000 or 96% is due to the decrease in investments held during the nine months ended September 30, 2009 compared to the nine months ended September 30, 2008. We had in excess of \$4 million of investments generating interest income during the nine months ended September 30, 2008 compared to none in the comparable period of 2009.

### Interest Expense

We incurred approximately \$2,000 of interest expense for the nine months ended September 30, 2009. This interest relates primarily to financing of premiums for product liability insurance. There was no interest expense for the nine months ended September 30, 2008.

### Impairment Loss of Auction Rate Securities



Effective January 1, 2008, we adopted fair value measurements under ASC Topic 820, which applied to our financial assets such as available-for-sale marketable securities (included as part of investments in the Unaudited Condensed Consolidated Balance Sheet). These items were to be marked-to-market at each reporting period; however, the definition of fair value used for these mark-to-markets is now applied using ASC Topic 820. Our available-for-sale marketable securities consisted of auction rate securities (ARS) at September 30, 2008.

During the first three months of 2008, our ARS failed at auction due to sell orders exceeding buy orders in the entire ARS market. Based upon an analysis of other-than-temporary impairment factors, ARS with an original par value of approximately \$4.4 million were written-down to an estimated fair value of \$4.3 million as of March 31, 2008. We reviewed impairments associated with the above in accordance with ASC Topic 320 to determine the classification of the impairment as “temporary” or “other-than-temporary.”

An impairment loss of approximately \$114,000 on ARS was charged to our results of operations for the nine months ended September 30, 2008. Approximately \$300,000 of ARS were redeemed at par during the three months ended June 30, 2008 thereby reducing the total par value from \$4.4 million to \$4.1 million as of June 30, 2008.

We sold, at par value, our remaining ARS to a third party on July 22, 2008 for \$4.1 million. We recorded an Unrealized Holding Gain in the second quarter of 2008 of approximately \$114,000 when we adjusted such investment to fair value, as a result of our reclassification of such investment from Available-for-Sale to Trading Securities. We subsequently reversed the Unrealized Holding Gain and recorded a Realized Gain on Sale of Investments of approximately \$114,000 in the third quarter of 2008 when the sale transaction was executed.

There was no impact on our operations for the nine month period ended September 30, 2009 because the ARS investment was sold in 2008.

#### Other income and expenses

Other income in the amount of approximately \$328,000 and \$163,000 for the nine months ended September 30, 2009 and September 30, 2008, respectively, resulted primarily from receipt of New York State Qualified Emerging Technology Company (“QETC”) tax refunds in each of these periods. Tax credits for the years 2006 and 2007 were received during the nine months ended September 30, 2009. The tax credit for the year 2005 was received during the nine months ended September 30, 2008.

#### Liquidity and Capital Resources

Our future liquidity sources and requirements will depend on many factors, including:

- the market acceptance of our products, and our ability to effectively and efficiently produce and market our products;
- the availability of additional financing, through the sale of equity securities or otherwise, on commercially reasonable terms or at all;
- the timing and costs associated with obtaining the Conformité Européene, or CE, mark, which demonstrates compliance with the relevant European Union requirements and is a regulatory pre requisite for selling our ESRD therapy products in the European Union and certain other countries that recognize CE marking (for products other than our OLpur MDHDF filter series, for which the CE mark was obtained in July 2003), or United States regulatory approval;
  - the continued progress in and the costs of clinical studies and other research and development programs;
  - the costs involved in filing and enforcing patent claims and the status of competitive products; and
  - the cost of litigation, including potential patent litigation and any other actual or threatened litigation.

We expect to put our current capital resources to the following uses:

- for the marketing and sales of our products;
- to obtain appropriate regulatory approvals and expand our research and development with respect to our ESRD therapy products;

- to continue our ESRD therapy product engineering;
- to pursue business opportunities with respect to our DSU water-filtration product; and
  - for working capital purposes.

In response to liquidity issues experienced with our auction rate securities, and in order to facilitate greater liquidity in our short-term investments, on March 27, 2008, our board of directors adopted an Investment, Risk Management and Accounting Policy. Such policy limits the types of instruments or securities in which we may invest our excess funds in the future to: U.S. Treasury Securities; Certificates of Deposit issued by money center banks; Money Funds by money center banks; Repurchase Agreements; and Eurodollar Certificates of Deposit issued by money center banks. This policy provides that our primary objectives for investments shall be the preservation of principal and achieving sufficient liquidity to meet our forecasted cash requirements. In addition, provided that such primary objectives are met, we may seek to achieve the maximum yield available under such constraints.

Our forecast of the period of time through which our financial resources will be adequate to support our operations is a forward-looking statement that involves risks and uncertainties, and actual results could vary materially. In the event that our plans change, our assumptions change or prove inaccurate, or if our existing cash resources, together with other funding resources including increased sales of our products, otherwise prove to be insufficient to fund our operations and we are unable to obtain additional financing, we will be required to adopt alternatives, such as curtailing our planned activities or ceasing our operations.

In June 2006, we entered into subscription agreements with certain investors who purchased an aggregate of \$5,200,000 principal amount of our 6% Secured Convertible Notes due 2012 (the "Old Notes"). The Old Notes were secured by substantially all of our assets. However, as of September 19, 2007, the Old Notes were exchanged for New Notes as further described in the paragraphs below.

We entered into a Subscription Agreement ("Subscription Agreement") with Lambda Investors LLC ("Lambda") on September 19, 2007 (the "First Closing Date"), GPC 76, LLC on September 20, 2007, Lewis P. Schneider on September 21, 2007 and Enso Global Equities Partnership LP ("Enso") on September 25, 2007 (collectively, the "New Investors") pursuant to which the New Investors purchased an aggregate of \$12,677,000 principal amount of our Series A 10% Secured Convertible Notes due 2008 (the "Purchased Notes"), for the face value thereof (the "Offering"). Concurrently with the Offering, we entered into an Exchange Agreement (the "Exchange Agreement") with each of Southpaw Credit Opportunities Master Fund LP, 3V Capital Master Fund Ltd., Distressed/High Yield Trading Opportunities, Ltd., Kudu Partners, L.P. and LJHS Company (collectively, the "Exchange Investors" and together with the New Investors, the "Investors"), pursuant to which the Exchange Investors agreed to exchange the principal and accrued but unpaid interest in an aggregate amount of \$5,600,000 under our Old Notes, for our new Series B 10% Secured Convertible Notes due 2008 in an aggregate principal amount of \$5,300,000 (the "Exchange Notes", and together with the Purchased Notes, the "New Notes") (the "Exchange", and together with the Offering, the "Financing").

We obtained the approval of our stockholders representing a majority of our outstanding shares to the issuance of shares of our common stock upon conversion of our New Notes and exercise of our Class D Warrants (as defined below) issuable upon such conversion, as further described below. The stockholder approval became effective on November 13, 2007, and the New Notes converted into shares of our common stock on November 14, 2007.

All principal and accrued but unpaid interest (the "Conversion Amount") under our New Notes automatically converted into (i) shares of our common stock at a conversion price per share of our common stock (the "Conversion Shares") equal to \$0.706 and (ii) in the case of our Purchased Notes, but not our Exchange Notes, Class D Warrants (the "Class D Warrants") for purchase of shares of our common stock (the "Warrant Shares") in an amount equal to 50% of the number of shares of our common stock issued to the New Investors in accordance with clause (i) above with an exercise price per share of our common stock equal to \$0.90 (subject to anti-dilution adjustments). The Class D Warrants have a term of five years and are non-callable by us.

National Securities Corporation ("NSC") and Dinosaur Securities, LLC ("Dinosaur" and together with NSC, the "Placement Agent") acted as co-placement agents in connection with the Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The Placement Agent received (i) an aggregate cash fee equal to 8% of the face amount of the Lambda Purchased Note and the Enso Purchased Note allocated and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants ("Placement Agent Warrant") with a term of five years from the date of issuance to purchase 10% of the aggregate number of shares of our common stock issued upon conversion of the Lambda Purchased Note and the Enso Purchased Note with an exercise price per share of our common stock equal to \$0.90.

In connection with the sale of the New Notes, we entered into a Registration Rights Agreement with the Investors, dated as of the First Closing Date (the "Registration Rights Agreement"), pursuant to which we agreed to file an initial resale registration statement ("Initial Resale Registration Statement") with the SEC no later than 60 days after we file a definitive version of our Information Statement on Schedule 14C with the SEC, and we filed such Initial Resale Registration Statement on December 20, 2007. We also agreed to use our commercially reasonable best efforts to have the Initial Resale Registration Statement declared effective within 240 days after filing of a definitive version of our Information Statement on Schedule 14C. The Initial Resale Registration Statement was declared effective on May 5, 2008.

At December 31, 2008, we had an accumulated deficit of \$87,949,000, and we expect to incur additional losses in the foreseeable future at least until such time, if ever, that we are able to increase product sales or licensing revenue. We have financed our operations since inception primarily through the private placements of equity and debt securities and our initial public offering in September 2004, from licensing revenue received from Asahi Kasei Medical Co., Ltd. ("Asahi") in March 2005, a private placement of convertible debenture in June 2006 and a private investment in public equity in September 2007.

Net cash used in operating activities was \$5,725,000 for the year ended December 31, 2008 compared to \$6,442,000 for the year ended December 31, 2007.

During 2008, the net cash used in operating activities was \$717,000 less than the net cash used in operating activities during 2007. The most significant items contributing to this increase in operating cash are highlighted below:

- During 2008, our net loss adjusted to reconcile net loss to net cash used in operating activities was \$5,735,000 compared to \$6,461,000 in 2007. This represents a improvement of \$726,000 in operating cash in 2008. Noncash stock-based compensation was \$155,000 and \$885,000 in 2008 and 2007 respectively, a reduction of \$730,000.
- During 2008, our accounts receivable, other current assets and other assets decreased by \$236,000. This compares to an increase of \$96,000 in 2007. This represents a \$332,000 source of operating cash.

- During 2008, our inventory increased by \$409,000. This compares to a decrease in inventory of \$217,000 in 2007. This represents a \$626,000 use of operating cash. Inventory increased due to the introduction of the DSU product in 2008.
- During 2008, accounts payable and accrued expenses increased by \$183,000. This compares to a decrease in accounts payable and accrued expenses of \$102,000 during 2007. This represents a \$285,000 source of operating cash.

Net cash provided by investing activities was \$4,599,000 for the year ended December 31, 2008 compared to net cash used by investing activities of \$2,045,000 for the year ended December 31, 2007.

In 2008, \$4,693,000 of the funds were provided by the sale of short-term investments. Approximately \$97,000 of these funds were used to purchase property, plant and equipment. An additional \$3,000 was provided by the sale of equipment.

In 2007, \$2,800,000 of funds was provided by the sale of short-term investments. \$145,000 of these funds was used to purchase property, plant and equipment. Approximately \$4,700,000 of funds was used to purchase short-term investments during 2007.

Net cash used in operating activities was approximately \$1,870,000 for the nine months ended September 30, 2009 compared to approximately \$4,329,000 for the nine months ended September 30, 2008. The \$2,459,000 decrease in cash used in operating activities was primarily due to:

- During the 2009 period, our net loss decreased by approximately \$3,887,000;
- During the 2009 period, our stock-based compensation expense decreased by approximately \$29,000;
- Our accounts receivable increased by approximately \$114,000 during the 2009 period compared to a decrease of approximately \$93,000 during the 2008 period;
- Our inventory decreased by approximately \$118,000 during the 2009 period compared to an increase of approximately \$1,000 during the 2008 period;
- Our prepaid expenses and other assets decreased by approximately \$49,000 in the 2009 period compared to a decrease of approximately \$48,000 in the 2008 period; and
- Our accounts payable and accrued expenses decreased by approximately \$638,000 in the aggregate in the 2009 period compared to an increase of approximately \$594,000 in the 2008 period.

Net cash provided by investing activities was approximately \$7,000 for the nine months ended September 30, 2009, compared to net cash provided by investing activities of approximately \$4,630,000 for the nine months ended September 30, 2008. Our net cash provided by investing activities for the nine months ended September 30, 2008 reflects the proceeds from the sales of auction rate securities of approximately \$4,100,000 plus maturities of short-term investments net of purchases in the amount of approximately \$593,000 partially offset by approximately \$63,000 for purchases of computer equipment.

#### Contractual Obligations and Commercial Commitments

The following tables summarize our approximate minimum contractual obligations and commercial commitments as of December 31, 2008:

Contractual Obligations	Total	Payments Due in Period			
		Within 1 Year	Years 1 – 3	Years 3 – 5	More than 5 Years
Leases	\$ 296,000	\$ 115,000	\$ 181,000	\$ —	\$ —
Employment Contracts	1,066,250	425,000	641,250		
Total	\$ 1,362,250	\$ 540,000	\$ 822,250	\$ —	\$ —

DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Board of Directors

Our board of directors is divided into three classes, each class as nearly equal in number as practicable. Each year, one class is elected to serve for three years. The business address for each director for matters regarding our company is 41 Grand Avenue, River Edge, New Jersey 07661.

Class I Directors – Term Expiring 2011

Name	Age (as of 12/31/09)	Director Since	Business Experience For Last Five Years
Arthur H. Amron	53	2007	Arthur H. Amron has served as a director of our company since September 2007. Mr. Amron is a partner of Wexford Capital LP and serves as its General Counsel. Mr. Amron also actively participates in various private equity transactions, particularly in the bankruptcy and restructuring areas, and has served on the boards and creditors' committees of a number of public and private companies in which Wexford has held investments. From 1991 to 1994, Mr. Amron was an Associate at Schulte Roth & Zabel LLP specializing in corporate and bankruptcy law and from 1984 to 1991, Mr. Amron was an Associate at Debevoise & Plimpton LLP specializing in corporate litigation and bankruptcy law. Mr. Amron holds a JD from Harvard University, a BA in political theory from Colgate University and is a member of the New York Bar.

Name	Age (as of 12/31/09)	Director Since	Business Experience For Last Five Years
James S. Scibetta	45	2007	James S. Scibetta has served as a director of our company since November 2007. Since August 2008, Mr. Scibetta has been the Chief Financial Officer of Pacira Pharmaceuticals, Inc. Prior to that, Mr. Scibetta was Chief Financial Officer of Bioenvision, Inc. from December 2006 until its acquisition by Genzyme, Inc. in October 2007. From September 2001 to November 2006, Mr. Scibetta was Executive Vice President and CFO of Merrimack Pharmaceuticals, Inc., and he was a member of the Board of Directors of Merrimack from April 1998 to March 2004. Mr. Scibetta formerly served as a senior investment banker at Shattuck Hammond Partners, LLC and PaineWebber Inc., providing capital acquisition, mergers and acquisitions, and strategic advisory services to healthcare companies. Mr. Scibetta holds a B.S. in Physics from Wake Forest University, and an M.B.A. in Finance from the University of Michigan. He completed executive education studies in the Harvard Business School Leadership & Strategy in Pharmaceuticals and Biotechnology program.

## Class II Director – Term Expiring 2009

Name	Age (as of 12/31/09)	Director Since	Business Experience For Last Five Years
Paul A. Mieyal	40	2007	Paul A. Mieyal has served as a director of our company since September 2007. Dr. Mieyal has been a Vice President of Wexford Capital LP since October 2006. From January 2000 through September 2006, he was Vice President in charge of healthcare investments for Wechsler & Co., Inc., a private investment firm and registered broker-dealer. Dr. Mieyal is also a director of Nile Therapeutics, Inc. Dr. Mieyal received his Ph.D. in pharmacology from New York Medical College, a B.A. in chemistry and psychology from Case Western Reserve University, and is a Chartered Financial Analyst.



## Class III Directors – Term Expiring 2010

Name	Age (as of 12/31/09)	Director Since	Business Experience For Last Five Years
Lawrence J. Centella	69	2001	Lawrence J. Centella has served as a director of our company since January 2001. Mr. Centella serves as president of Renal Patient Services, LLC, a company that owns and operates dialysis centers, and has served in such capacity since June 1998. From 1997 to 1998, Mr. Centella served as executive vice president and chief operating officer of Gambro Healthcare, Inc., an integrated dialysis company that manufactured dialysis equipment, supplied dialysis equipment and operated dialysis clinics. From 1993 to 1997, Mr. Centella served as president and chief executive officer of Gambro Healthcare Patient Services, Inc. (formerly REN Corporation). Prior to that, Mr. Centella served as president of COBE Renal Care, Inc., Gambro Hospital, Inc., LADA International, Inc. and Gambro, Inc. Mr. Centella is also the founder of LADA International, Inc. Mr. Centella received a B.S. from DePaul University.
Ernest Elgin III	44	2009	Ernest Elgin III has served as our President and Chief Executive Officer since September 2008. Mr. Elgin most recently served as Vice President of Business Development and Chief Operating Officer of Novaflux Technologies, Inc., a medical technology company engaged in biofilm removal, among other things. Prior to joining Novaflux in September 2004, Mr. Elgin spent four years as Vice President, Healthcare for EHC Group, a New York based consulting organization providing market and business development services for healthcare related organizations. Mr. Elgin has also held product and business development roles with Becton Dickinson, Olympus America, and E-Z-EM, Inc. Mr. Elgin started his career as a Financial Analyst with Salomon Brothers. He earned his B.A. from Queens College and his M.B.A. from Long Island University.

## Selection of Nominees for the Board of Directors

The entire Board is responsible for nominating members for election to the Board and for filling vacancies on the Board that may occur between annual meetings of the stockholders. The Nominating and Corporate Governance

Committee is responsible for identifying, screening, and recommending candidates to the entire Board for prospective Board membership. When formulating its Board membership recommendations, the Nominating and Corporate Governance Committee also considers any qualified candidate for an open board position timely submitted by our stockholders in accordance with our established procedures, which did not change in fiscal year 2008 or 2009.

## Audit Committee

The Audit Committee is composed of James S. Scibetta (Chairman) and Lawrence J. Centella, neither of whom is our employee and each of whom has been determined by the Board of Directors to be independent under the NYSE Alternext US LLC, formerly the American Stock Exchange, or AMEX, listing standards. Although our common stock was delisted from the NYSE Alternext in January 2009, our Board has chosen to apply the NYSE Alternext definition of independence. The purpose of the Audit Committee is (i) accounting, auditing, and financial reporting processes; (ii) the integrity of our financial statements; (iii) our internal controls and procedures designed to promote compliance with accounting standards and applicable laws and regulations; and (iv) the appointment of and evaluating the qualifications and independence of our independent registered public accounting firm.

The Board of Directors has determined that all Audit Committee members are financially literate under the current listing standards of the NYSE Alternext. The Board also determined that Mr. Scibetta qualifies as an “audit committee financial expert” as defined by the SEC rules adopted pursuant to the Sarbanes-Oxley Act of 2002.

## Code of Business Conduct and Code of Ethics

During the fiscal year ended December 31, 2004, we adopted a Code of Ethics and Business Conduct, which was amended and restated on April 2, 2007, for our employees, officers and directors that complies with Securities and Exchange Commission, or SEC, regulations. The Code of Ethics is available free of charge on our website at [www.nephros.com](http://www.nephros.com), by clicking on the Investor Relations link, then the Corporate Governance link. We intend to timely disclose any amendments to, or waivers from, our code of ethics and business conduct that are required to be publicly disclosed pursuant to rules of the SEC by filing such amendment or waiver with the SEC.

## Executive Officers

Information regarding our executive officers as of December 31, 2009, is set forth below. There are no family relationships among our directors or executive officers.

Name	Age	Position
Ernest Elgin III	44	Ernest Elgin III has served as our President and Chief Executive Officer since September 2008. Mr. Elgin most recently served as Vice President of Business Development and Chief Operating Officer of Novaflux Technologies, Inc., a medical technology company engaged in biofilm removal, among other things. Prior to joining Novaflux in September 2004, Mr. Elgin spent four years as Vice President, Healthcare for EHC Group, a New York based consulting organization providing market and business development services for healthcare related organizations. Mr. Elgin has also held product and business development roles with Becton Dickinson, Olympus America, and E-Z-EM, Inc. Mr. Elgin started his career as a Financial Analyst with Salomon Brothers. He earned his B.A. from Queens College and his M.B.A. from Long Island University.
Gerald J. Kochanski	56	Gerald J. Kochanski has served as our Chief Financial Officer since April 2008. Mr. Kochanski most recently

served as the Financial Services Director of Lordi Consulting LLC, a national consulting firm, from February 2007 through February 2008. From October 2004 until December 2006, Mr. Kochanski was the Chief Financial Officer of American Water Enterprises, Inc., a business unit of a privately owned company in the water and wastewater treatment industry. From November 1998 through September 2004, Mr. Kochanski was the Chief Financial Officer of Scanvec Amiable Ltd., a publicly traded provider of software to the signmaking, digital printing and engraving industries. Mr. Kochanski is a Certified Public Accountant and received his B.S. in Accounting and his M.B.A. in Finance from La Salle University, where he has also been an adjunct accounting department faculty member since 1986.

## EXECUTIVE COMPENSATION

## Summary Compensation Table

The following table sets forth all compensation earned in the fiscal years ended December 31, 2009 and 2008 by our Named Executive Officers.

## Summary Compensation Table

Name and Principal Position	Year	Salary(\$)	Bonus(1) (\$)	Option Awards(2) (\$)	All Other Compensation(3) (\$)	Total
Norman J. Barta(4) President and Chief Executive Officer	2009	—	—	—	—	—
	2008	\$ 373,846	\$ 18,000	\$ —	\$ 37,212	\$ 429,058
Ernest A. Elgin III(5) President and Chief Executive Officer	2009	\$ 240,000	—	\$ 160,048	\$ 23,876	\$ 423,924
	2008	\$ 70,000	\$ 35,000	\$ 210,000	\$ 7,073	\$ 322,075
Mark W. Lerner(6) Chief Financial Officer	2009	—	—	—	—	—
	2008	\$ 113,750	—	—	\$ 1,105	\$ 114,855
Gerald J. Kochanski(7) Chief Financial Officer	2009	\$ 190,550	—	\$ 48,614	\$ 32,059	\$ 271,223
	2008	\$ 138,750	\$ 18,000	\$ 143,747	\$ 19,553	\$ 320,050

(1) The amounts in this column reflect decisions approved by our Compensation Committee and are based on an analysis of the executive's contribution to Nephros during fiscal 2008 and 2009.

(2) The amount reported is the aggregate grant date fair value of the options granted, computed in accordance with FASB ASC Topic 718. The dollar amounts related to these grants that we recognized for financial statement reporting purposes with respect to the year ended December 31, 2008, in accordance with SFAS 123(R), was \$0 for Mr. Barta, \$14,424 for Mr. Elgin and \$25,169 for Mr. Kochanski and was based on the assumptions used in the calculation that is included in Note 2 to our audited consolidated financial statements for the year ended December 31, 2008, which are included in this prospectus. The dollar amount of option expense that we expect to recognize for financial statement reporting purposes with respect to the year ended December 31, 2009, in accordance with FASB ASC Topic 718 (formerly, SFAS 123(R)), is \$51,343 for Mr. Elgin and \$34,188 for Mr. Kochanski, and will be based on the same assumptions used in the calculation that is included in Note 2 to our audited consolidated financial statements for the year ended December 31, 2008, which are included in this prospectus. All assumptions used and amounts pertaining to the year ended December 31, 2009 have not yet been audited as of the date of this prospectus.

(3) See table below for details on Other Compensation.

(4) Mr. Barta resigned as President and Chief Executive Officer and as a member of our Board of Directors on September 15, 2008.

(5) Mr. Elgin became our President and Chief Executed Officer on September 15, 2008.

(6) Mr. Lerner resigned on April 28, 2008.

(7) Mr. Kochanski became our Chief Financial Officer as of April 1, 2008.

#### Other Compensation

Name	Year	Fees Paid As					Total Other Compensation
		Matching 401K Plan Contribution	Health Insurance Paid by Company	Life Insurance Paid by the Company	Non-Management Directors	Company Paid Transportation Expense	
Norman J. Barta	2009	—	—	—	—	—	—
	2008	\$ 8,050	\$ 18,682	\$ 8,434	-	\$ 2,046	\$ 37,212
Ernest A. Elgin III	2009	—	\$ 23,208	\$ 668	—	—	\$ 23,876
	2008	-	\$ 6,620	\$ 44	-	\$ 409	\$ 7,073
Mark W. Lerner	2009	—	—	—	—	—	—
	2008	-	-	\$ 82	-	\$ 1,023	\$ 1,105
Gerald J. Kochanski	2009	\$ 4,846	\$ 16,407	\$ 806	—	\$ 10,000	\$ 32,059
	2008	\$ 5,242	\$ 14,011	\$ 300	-	-	\$ 19,553

#### Option Holdings and Fiscal Year-End Option Values

The following table shows information concerning unexercised options outstanding as of December 31, 2009 for each of our named executive officers.

## Outstanding Equity Awards at Fiscal Year-End 2009

Name	Option Awards		Option Exercise Price (\$)	Option Expiration Date
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable		
Ernest A. Elgin III	187,500	562,500	\$ 0.37	9/15/18
Ernest A. Elgin III	-	75,000	\$ 0.13	1/6/19
Ernest A. Elgin III	-	250,000	\$ 0.77	12/31/19
Gerald J. Kochanski	62,500	187,500	\$ 0.75	4/1/18
Gerald J. Kochanski	-	25,000	\$ 0.13	1/6/19
Gerald J. Kochanski	-	75,570	\$ 0.77	12/31/19

## Employment and Change in Control Agreements

We have used employment agreements as a means to attract and retain executive officers. These are more fully discussed below. We believe that these agreements provide our executive officers with the assurance that their employment is a long-term arrangement and provide us with the assurance that the officers' services will be available to us for the foreseeable future.

## Agreement with Mr. Ernest Elgin III

We entered into an employment agreement with Mr. Elgin, dated as of September 15, 2008, having a term of three years. Pursuant to such employment agreement, Mr. Elgin's initial annual base salary is \$240,000. The employment agreement also provides that we shall establish a target discretionary bonus of 30% of Mr. Elgin's base salary, the amount of which, if any, that Mr. Elgin is awarded will be determined by the Compensation Committee in its sole discretion, based in part on attainment of certain performance objectives to be identified by Mr. Elgin and the Compensation Committee. We agreed to provide Mr. Elgin with a guaranteed bonus of \$35,000 for the period from September 15, 2008 through December 31, 2008. Pursuant to the employment agreement, on September 15, 2008, we granted Mr. Elgin an option to purchase 750,000 shares of our common stock under our 2004 Equity Incentive Plan. The option vests in four equal annual installments of 187,500 shares on each of September 15, 2009, September 15, 2010, September 15, 2011 and September 15, 2012, provided that Mr. Elgin remains employed by us at such time, and provided further that all options shall vest and become exercisable in full immediately upon the occurrence of a change in control (as defined in the employment agreement).

Mr. Elgin's employment agreement provides that, upon termination by us for cause or disability (as such terms are defined in the agreement) or by Mr. Elgin for any reason other than his exercise of the change of control termination option (as defined in the agreement and discussed below) or upon his death, we shall pay him only his accrued but unpaid base salary and bonuses for services rendered through the date of termination, his unvested options shall immediately be cancelled and forfeited and his vested options shall remain exercisable for 90 days after such termination. If we terminate Mr. Elgin's employment for any other reason or if he terminates his employment pursuant to his change of control termination option, then, provided he continues to abide by certain confidentiality and non-compete provisions of his agreement and executes a release, he shall be entitled to: (1) any earned but unpaid base salary for services rendered through the date of termination; and (2) the continued payment of his base salary for a

period of either three months or, if he has been employed under the agreement for at least one year, six months subsequent to the termination date or until the end of the remaining term of the agreement if sooner.



Upon any change of control, Mr. Elgin shall have a period of time in which to discuss, negotiate and confer with any successor entity regarding the terms and conditions of his continued employment. If Mr. Elgin, acting reasonably, is unable to timely reach an agreement through good faith negotiations with such successor, then he may elect to terminate his employment with us and receive the payments described above with respect to such a termination. This election is the change of control termination option.

The agreement defines a "change in control" as (1) the acquisition, directly or indirectly, by any person (as such term is defined in Section 13(d) and 14(d)(2) of the Securities Exchange Act of 1934), in one transaction or a series of related transactions, of our securities representing 50% or more of the combined voting power of our then outstanding securities if such person or his or its affiliate(s) do not own in excess of 50% of such voting power on the date of the agreement, or (2) the disposition by us (whether direct or indirect, by sale of assets or stock, merger, consolidation or otherwise) of all or substantially all of its business and/or assets in one transaction or series of related transactions (other than a merger effected exclusively for the purpose of changing the domicile of the Company).

The agreement defines "cause" as (1) an indictment, conviction, or plea of nolo contendere to, any felony or a misdemeanor involving fraud or dishonesty (whether or not involving us); (2) engaging in any act which, in each case, subjects, or if generally known would subject, us to public ridicule or embarrassment; (3) gross neglect or misconduct in the performance of the employee's duties under the agreement; or (4) material breach of any provision of the agreement by the employee; provided, however, that with respect to clauses (3) or (4), the employee must have received written notice from us setting forth the alleged act or failure to act constituting "cause", and the employee shall not have cured such act or refusal to act within 10 business days of his actual receipt of notice.

The agreement defines "disability" as our determination that, because of the employee's incapacity due to physical or mental illness, the employee has failed to perform his duties under the agreement on a full time basis for either (1) 90 days within any 365-day period, or (2) 60 consecutive days.

#### Agreement with Mr. Gerald Kochanski

Mr. Kochanski began serving as our chief financial officer on April 28, 2008, pursuant to an employment agreement dated as of April 1, 2008. Mr. Kochanski's initial annual base salary is \$185,000. For the first year of Mr. Kochanski's employment, we will pay him a non-accountable commuting allowance of \$10,000. In addition, we agreed to pay up to \$10,000 of Mr. Kochanski's moving costs. Mr. Kochanski may be awarded a bonus based on performance. Pursuant to the employment agreement, we granted Mr. Kochanski an option to purchase 250,000 shares of our common stock under our 2004 Equity Incentive Plan. The option vests in four equal annual installments of 62,500 shares on each of March 31, 2009, March 31, 2010, March 31, 2011 and March 31, 2012 provided that he remains employed by us at such time, and provided further that such options shall become exercisable in full immediately upon the occurrence of a change in control (as defined in our 2004 Stock Incentive Plan).

Mr. Kochanski's agreement provides that upon termination by us for cause or disability (as such terms are defined in the agreement) or by Mr. Kochanski for any reason other than his exercise of the change of control termination option (as defined in the agreement), then we shall pay him only his accrued but unpaid base salary and bonuses for services rendered through the date of termination, his unvested options shall immediately be cancelled and forfeited and his vested options shall remain exercisable for 90 days after such termination. If Mr. Kochanski's employment is terminated by his death or by his voluntary resignation or retirement other than upon his exercise of the change of control termination option, then we shall pay him his accrued but unpaid base salary for services rendered through the date of termination and any bonuses due and payable through such date of termination and those that become due and payable within 90 days after such date. If we terminate Mr. Kochanski's employment for any other reason, then, provided he continues to abide by certain confidentiality and non-compete provisions of his agreement and executes a release, he shall be entitled to: (1) any accrued but unpaid base salary for services rendered through the date of termination; and (2) the continued payment of his base salary, in the amount as of the date of termination, for a period

of either three months or, if he has been employed under the agreement for at least one year, six months subsequent to the termination date or until the end of the remaining term of the agreement if sooner.

Upon any sale of all or substantially all of our business or assets, whether direct or indirect, by purchase, merger, consolidation or otherwise, Mr. Kochanski shall have a period of time in which to discuss, negotiate and confer with any successor entity regarding the terms and conditions of his continued employment. If Mr. Kochanski, acting reasonably, is unable to timely reach an agreement through good faith negotiations with such successor, then he may elect to terminate his employment with us and receive the payments and bonuses described above with respect to such a termination. This is the same change in control termination option found in the Elgin employment agreement.

The agreement defines “cause” as (1) conviction of any crime (whether or not involving us) constituting a felony in the jurisdiction involved; (2) engaging in any act which, in each case, subjects, or if generally known would subject, us to public ridicule or embarrassment; (3) gross neglect or misconduct in the performance of the employee’s duties under the agreement; or (4) material breach of any provision of the agreement by the employee; provided, however, that with respect to clauses (3) or (4), the employee must have received written notice from us setting forth the alleged act or failure to act constituting “cause”, and the employee shall not have cured such act or refusal to act within 10 business days of his actual receipt of notice.

The agreement defines “disability” as our determination that, because of the employee’s incapacity due to physical or mental illness, the employee has failed to perform his duties under the agreement on a full time basis for either (1) 120 days within any 365-day period, or (2) 90 consecutive days.

#### Agreement with Mr. Norman J. Barta

Norman J. Barta previously served as our president and chief executive officer under a written employment agreement with us. In connection with Mr. Barta’s resignation in September 2008, we entered into a Separation Agreement and Release with him, dated as of September 15, 2008, pursuant to which Mr. Barta provided certain transition services to us at his current base salary until October 10, 2008. The separation agreement replaced Mr. Barta’s employment agreement with us and provided, among other things, that he would receive an \$18,000 bonus in connection with certain operational milestones that had been met as of the date of the separation agreement, would continue to receive his base salary and certain benefits during the six months immediately following the transition period, and that he will be subject to certain confidentiality, non-competition and proprietary rights restrictions. Pursuant to the separation agreement, we paid Mr. Barta \$391,846 in salary and \$37,212 in benefits in 2008 and will pay him \$100,000 in salary and \$5,675 in benefits in 2009. Under the separation agreement, Mr. Barta forfeited options to purchase an aggregate of 347,221 shares. All remaining shares held by Mr. Barta were forfeited on December 15, 2008.

#### Agreement with Mr. Mark W. Lerner

Mr. Lerner, our former chief financial officer, resigned as of April 28, 2008. Mr. Lerner began serving as our chief financial officer on March 6, 2006, pursuant to a letter agreement dated as of March 3, 2006. Mr. Lerner’s initial annual base salary was \$175,000. Mr. Lerner also received an option to purchase 40,000 shares of our common stock under our 2004 Equity Incentive Plan. One-quarter of the option vested on the grant date and the remainder of the option were to vest in three equal annual installments of 10,000 shares beginning on the anniversary of the grant date. In addition, Mr. Lerner may be awarded a bonus based on performance. Mr. Lerner’s agreement provided that upon termination by us for cause (as defined in the agreement), death or disability or by his voluntary resignation or retirement, we would pay him only his accrued but unpaid base salary for services rendered through the date of termination. If we terminated Mr. Lerner’s employment for any other reason, then he would be entitled to: (1) any accrued but unpaid base salary for services rendered through the date of termination; and (2) the continued payment of his base salary, in the amount as of the date of termination, for 90 days subsequent to the termination date. Upon his voluntary resignation pursuant to a separation agreement, we paid Mr. Lerner his then-current base salary for three months following his resignation. Options for an aggregate of 40,000 shares were forfeited on August 28, 2008, and all remaining options held by Mr. Lerner were forfeited on August 28, 2008.

#### 2004 Equity Incentive Plan

The 2004 Plan provides that if there is a change in control, unless the agreement granting an award provides otherwise, all awards under the 2004 Plan will become vested and exercisable as of the effective date of the change in control. As defined in the 2004 Plan, a change in control means the occurrence of any of the following events: (i) any “person,” including a “group,” as such terms are defined in sections 13(d) and 14(d) of the Exchange Act and the rules promulgated thereunder, becomes the beneficial owner, directly or indirectly, whether by purchase or acquisition or

agreement to act in concert or otherwise, of more than 50% of the outstanding shares of our common stock; (ii) our complete liquidation; (iii) the sale of all or substantially all of our assets; or (iv) a majority of the members of our Board of Directors are elected to the Board without having previously been nominated and approved by a majority of the members of the Board incumbent on the day immediately preceding such election.

#### Director Compensation

In fiscal 2009, our directors received a \$10,000 annual retainer, \$1,200 per meeting for each quarterly Board meeting attended and reimbursement for expenses incurred in connection with serving on our Board of Directors. The Chairman of the Board receives an annual retainer of \$20,000 and \$1,500 per meeting for each quarterly Board meeting attended. The chairperson of our Audit Committee is paid a \$5,000 annual retainer and \$500 per meeting for meetings of the Audit Committee, with a maximum of eight meetings per year.

We grant each non-employee director who first joins our Board, immediately upon such director's joining our Board, options to purchase 20,000 shares of our common stock in respect of such first year of service at an exercise price per share equal to the fair market value price per share of our common stock on the date of grant. We also grant annually to each non-employee director options to purchase 10,000 shares of our common stock (12,500 shares to the Chairman of the Board, effective in 2009) at an exercise price per share equal to the fair market value price per share of our common stock on the grant date, although inadvertently we did not grant these options in 2008 and 2009, and subsequently granted them in January 2010 with an exercise price of \$0.95 per share. These non-employee director options vest in three equal installments on each of the date of grant and the first and second anniversaries thereof. Our executive officers do not receive additional compensation for service as directors if any of them so serve.

The following table shows the compensation earned by each of our non-employee directors for the year ended December 31, 2009.

Non-Employee Director Compensation in Fiscal 2009

Name	Fees Earned or Paid in Cash	Option Awards(1) (2)	Total (\$)
Arthur H. Amron	\$ 14,800	\$ —	\$ 14,800
Lawrence J. Centella	\$ 14,800	\$ —	\$ 14,800
Paul A. Mieyal	\$ 14,800	\$ —	\$ 14,800
Eric A. Rose, M.D.(3)	\$ 7,400	\$ —	\$ 7,400
James S. Scibetta	\$ 27,000	\$ 26,275	\$ 53,275

(1) The amount reported is the aggregate grant date fair value of the options granted, computed in accordance with FASB ASC Topic 718. The dollar amount of option expense that we expect to recognize for financial statement reporting purposes with respect to the year ended December 31, 2009, in accordance with FASB ASC Topic 718 (formerly, SFAS 123(R)), is \$2,547 for Mr. Amron, \$0 for Mr. Centella, \$2,547 for Mr. Mieyal, \$0 for Dr. Rose, and \$14,980 for Mr. Scibetta, based on the same assumptions used in the calculation that is included in Note 2 to our audited consolidated financial statements for the year ended December 31, 2008, which are included in this prospectus. All assumptions used and amounts pertaining to the year ended December 31, 2009 have not yet been audited as of the date of this prospectus.

(2) Unless otherwise indicated below, option awards included in this table vest in three equal installments on each of the date of grant and the first and second anniversaries thereof.

(3) Dr. Rose resigned from the Board on June 22, 2009.

## CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

### Director Independence

Our Board of Directors is currently composed of five directors. Although our common stock is no longer listed on NYSE Alternext but is traded on Over-the-Counter Bulletin Board, our Board of Directors has determined to apply NYSE Alternext's test for director independence to all of our directors. Using that test, the Board has determined that all of our directors are independent under NYSE Alternext's rules. As part of such determination of independence, our Board has affirmatively determined that none of our directors has a relationship with our company that would interfere with the exercise of independent judgment in carrying out his responsibility as a director.

### Certain Relationships and Related Transactions

Dr. Eric A. Rose was a director until his resignation in June 2009. During his service, Dr. Rose was on leave from his position as the Chairman of Columbia University's Department of Surgery. Until November 30, 2008, we licensed the right to use approximately 2,788 square feet of office space from the Trustees of Columbia University. The term of the lease agreement was for one year through September 30, 2008 at a monthly cost of \$13,359.55. Pursuant to this agreement, we could access the internet through the Columbia University Network at a monthly fee of \$328.50. The lease terminated on November 30, 2008, and we do not currently have any other material relationship with Columbia University.

## SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth the beneficial ownership of our common stock as of December 31, 2009, by (i) each person known to us to own beneficially more than five percent (5%) of our common stock, based on such persons' or entities' most recent filings with the SEC; (ii) each director, director nominee and executive officer; and (iii) all directors, director nominees and executive officers as a group:

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership	Percentage of class (1)
Lambda Investors LLC (2)	21,572,432	44.2%
Stagg Capital Group LLC(3)	3,749,558	9.0%
AFS Holdings One LLC (4)	3,150,597	7.6%
Arthur H. Amron (5)	15,000	*
Lawrence J. Centella (6)	63,410	*
Ernest Elgin III (7)	206,250	*
Gerald J. Kochanski (8)	68,750	*
Paul A. Mieyal (9)	15,000	*
James S. Scibetta (10)	26,667	*
All executive officers and directors as a group (5-10)	395,077	*

\* Represents less than 1% of the outstanding shares of our common stock.

(1) Percentages are based on 41,604,798 shares of common stock issued and outstanding as of December 31, 2009.

(2) Based in part on information provided in Schedule 13D filed on October 1, 2007. The shares beneficially owned by Lambda Investors LLC may be deemed beneficially owned by Wexford Capital LLC, which is the managing member of Lambda Investors LLC, by Charles E. Davidson in his capacity as chairman and managing member of Wexford Capital LLC and by Joseph M. Jacobs in his capacity as president and managing member of Wexford Capital LLC. The address of each of Lambda Investors LLC, Wexford Capital LLC, Mr. Davidson and Mr. Jacobs is c/o Wexford Capital LLC, 411 West Putnam Avenue, Greenwich, CT 06830. Each of Wexford Capital LLC, Mr. Davidson and Mr. Jacobs disclaims beneficial ownership of the shares of Common Stock owned by Lambda Investors LLC except, in the case of Mr. Davidson and Mr. Jacobs, to the extent of their respective interests in each member of Lambda Investors LLC. Includes 7,190,811 shares issuable on or prior to November 14, 2012 upon exercise of warrants held by Lambda Investors LLC having an exercise price of \$0.90 per share.

(3) Based in part on information provided in Schedule 13/D filed with the SEC on August 21, 2008. Stagg Capital Group, LLC ("Stagg Capital") serves as the investment advisor to an investment fund that holds the shares and Scott A. Stagg is the managing member of Stagg Capital. By reason of such relationships, Stagg Capital and Mr. Stagg may be deemed to be indirect beneficial owners of the shares.

(4) Based in part on information provided in Schedule 13G filed with the SEC on January 8, 2009 by AFS Holdings One LLC. AFS reported that it beneficially owns 3,150,597 shares of our common stock and has sole voting and dispositive power with respect to those shares.

(5) Mr. Amron's address is c/o Wexford Capital LLC, 411 West Putnam Avenue, Greenwich, CT 06830. The shares identified as being beneficially owned by Mr. Amron consist of 15,000 shares issuable upon exercise of options granted under the 2004 Plan.

(6) Mr. Centella's address is the Company address. The shares identified as being beneficially owned by Mr. Centella include 35,000 shares issuable upon exercise of options granted under the 2004 Plan.





- (7) Mr. Elgin's address is the Company address. The shares identified as being beneficially owned by Mr. Elgin consist of 206,250 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 868,750 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of December 31, 2009.
- (8) Mr. Kochanski's address is the Company address. The shares identified as being beneficially owned by Mr. Kochanski consist of 68,750 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 281,820 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of December 31, 2009.
- (9) Mr. Mieyal's address is c/o Wexford Capital LLC, 411 West Putnam Avenue, Greenwich, CT 06830. The shares identified as being beneficially owned by Mr. Mieyal consist of 15,000 shares issuable upon exercise of options granted under the 2004 Plan.
- (10) Mr. Scibetta's address is the Company address. The shares identified as being beneficially owned by Mr. Scibetta consist of 26,667 shares issuable upon exercise of options granted under the 2004 Plan. Does not include 13,333 shares issuable upon the exercise of options which have been granted under our Stock Option Plans but will not vest within 60 days of December 31, 2009.

#### LEGAL MATTERS

The legality of the Common stock being offered hereby will be passed upon for us by Wyrick Robbins Yates & Ponton, LLP, Raleigh, North Carolina.

#### EXPERTS

Our financial statements at and for the years ended December 31, 2007 and 2008 included in this prospectus have been audited by Rothstein Kass & Company P.C., an independent registered public accounting firm, as stated in their report, which report includes an explanatory paragraph related to the Company's ability to continue as a going concern. Such financial statements have been so incorporated in reliance upon the report of such firm given upon their authority as experts in accounting and auditing.

#### WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's public reference room located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the public reference room. Our SEC filings are also available to the public free of charge at the SEC's website at [www.sec.gov](http://www.sec.gov) and on our website at [www.nephros.com](http://www.nephros.com).

We have filed with the SEC a registration statement on Form S-1 under the Securities Act of 1933 with respect to the common stock being offered hereby. As permitted by the rules and regulations of the SEC, this prospectus does not contain all the information set forth in the registration statement and the exhibits and schedules thereto. For further information with respect to our company and the common stock offered hereby, reference is made to the registration statement, and such exhibits and schedules. A copy of the registration statement, and the exhibits and schedules thereto, may be inspected without charge at the public reference facilities maintained by the SEC at the addresses set forth above, and copies of all or any part of the registration statement may be obtained from such offices upon payment of the fees prescribed by the SEC. In addition, the registration statement may be accessed at the SEC's web site.



DISCLOSURE OF SEC POSITION ON INDEMNIFICATION FOR SECURITIES LAW VIOLATIONS

Our Fourth Amended and Restated Certificate of Incorporation, as amended, provides for indemnification of directors and officers of the Registrant to the fullest extent permitted by the Delaware General Corporation Law, or DGCL. We have obtained liability insurance for each director and officer for certain losses arising from claims or charges made against them while acting in their capacities as directors or officers of the registrant. Our Second Amended and Restated By-Laws provide for indemnification of our officers, directors and others who become a party to an action on our behalf by us to the fullest extent not prohibited under the DGCL. However, insofar as indemnification for liabilities arising under the Securities Act may be permitted to our directors, officers, and controlling persons pursuant to the foregoing provisions or otherwise, we have been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment of expenses incurred or paid by a director, officer or controlling person in a successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, we will, unless in the opinion of our counsel the matter has been settled by controlling precedent, submit to the court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

FINANCIAL STATEMENTS

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of  
Nephros, Inc.

We have audited the accompanying consolidated balance sheets of Nephros, Inc. and Subsidiary (collectively, “the Company”) as of December 31, 2008 and 2007, and the related consolidated statements of operations, stockholders’ equity and cash flows for each of the years then ended. These consolidated financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Nephros, Inc. and Subsidiary as of December 31, 2008 and 2007, and the results of their operations and their cash flows for each of the years then ended, in conformity with accounting principles generally accepted in the United States of America.

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As discussed in Note 2 to the consolidated financial statements, the Company has incurred negative cash flow from operations and net losses since inception. These conditions, among others, raise substantial doubt about its ability to continue as a going concern. Management’s plans in regard to these matters are also described in Note 2. The accompanying consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ ROTHSTEIN, KASS & COMPANY, P.C.

Roseland, New Jersey  
March 27, 2009

## NEPHROS, INC. AND SUBSIDIARY

## CONSOLIDATED BALANCE SHEETS

(In Thousands, Except Share Amounts)

	December 31, 2008		December 31, 2007	
<b>ASSETS</b>				
<b>Current assets:</b>				
Cash and cash equivalents	\$	2,306	\$	3,449
Short-term investments		7		4,700
Accounts receivable, less allowances of \$4 and \$7, respectively		404		419
Inventory, less allowances of \$0 and \$30, respectively		724		336
Prepaid expenses and other current assets		162		392
Total current assets		3,603		9,296
Property and equipment, net		412		762
Other assets		21		27
Total assets	\$	4,036	\$	10,085
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>				
<b>Current liabilities:</b>				
Accounts payable	\$	986	\$	488
Accrued expenses		411		781
Accrued severance expense		105		60
Total current liabilities		1,502		1,329
Total liabilities		1,502		1,329
<b>Commitments and Contingencies (Note 12)</b>				
<b>Stockholders' equity:</b>				
Preferred stock, \$.001 par value; 5,000,000 shares authorized at December 31, 2008 and 2007; no shares issued and outstanding at December 31, 2008 and 2007		—		—
Common stock, \$.001 par value; 60,000,000 authorized at December 31, 2008 and 2007, respectively; 38,165,380 shares issued and outstanding at December 31, 2008 and 2007		38		38
Additional paid-in capital		90,375		90,220
Accumulated other comprehensive income		70		110
Accumulated deficit		(87,949)		(81,612)
Total stockholders' equity		2,534		8,756
Total liabilities and stockholders' equity	\$	4,036	\$	10,085

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

NEPHROS, INC. AND SUBSIDIARY  
CONSOLIDATED STATEMENTS OF OPERATIONS

(In Thousands, Except Share and Per Share Amounts)

	Years Ended December 31	
	2008	2007
Product revenue	\$ 1,473	\$ 1,196
Cost of goods sold	1,064	876
Gross margin	409	320
Operating expenses:		
Research and development	1,977	1,920
Depreciation and amortization	447	352
Selling, general and administrative	4,702	5,527
Total operating expenses	7,126	7,799
Loss from operations	(6,717)	(7,479)
Interest income	199	138
Interest expense	—	(535)
Amortization of beneficial conversion feature	—	(13,429)
Amortization of debt discount	—	(4,556)
Amortization of deferred financing costs	—	(992)
Impairment of auction rate securities	(114)	—
Gain on sale of investments	114	—
Gain on exchange of debt	—	330
Other income	181	167
Net loss	\$ (6,337)	\$ (26,356)
Net loss per common share, basic and diluted	\$ (0.17)	\$ (1.68)
Weighted average common shares outstanding, basic and diluted	38,165,380	15,646,286

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

## NEPHROS, INC. AND SUBSIDIARY

## CONSOLIDATED STATEMENT OF CHANGES IN STOCKHOLDERS' EQUITY

(In Thousands, Except Share Amounts)

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Income (Loss)	Accumulated Deficit	Total
	Shares	Amount				
Balance, January 1, 2007	12,317,992	\$ 12	\$ 53,135	\$ 12	\$ (55,256)	\$ (2,097)
<b>Comprehensive income:</b>						
Net loss					(26,356)	(26,356)
Net unrealized gains on foreign currency translation				98		98
Comprehensive loss						(26,258)
Debt discount on issuance of convertible note			785			785
Beneficial conversion feature and warrant valuation			17,192			17,192
Conversion of notes and related accrued interest	25,847,388	26	18,223			18,249
Noncash stock-based compensation			885			885
Balance, December 31, 2007	38,165,380	\$ 38	\$ 90,220	\$ 110	\$ (81,612)	\$ 8,756
<b>Comprehensive income:</b>						
Net loss					(6,337)	(6,337)
Net unrealized losses on foreign currency translation				(40)		(40)
Comprehensive loss						(6,377)
Noncash stock-based compensation			155			155
Balance, December 31, 2008	38,165,380	\$ 38	\$ 90,375	\$ 70	\$ (87,949)	\$ 2,534

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



NEPHROS, INC. AND SUBSIDIARY  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(In Thousands)

	Years Ended December 31,	
	2008	2007
<b>Operating activities:</b>		
Net loss	\$ (6,337)	\$ (26,356)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization of property and equipment	447	352
Impairment of auction rate securities	114	—
Loss on disposal of equipment	—	4
Beneficial conversion features	—	13,429
Amortization of debt discount	—	4,556
Amortization of deferred financing costs	—	992
Change in valuation of derivative liability	—	7
Noncash stock-based compensation	155	885
Gain on sale of investments	(114)	—
Gain on exchange of debt	—	(330)
(Increase) decrease in operating assets:		
Accounts receivable	1	(154)
Inventory	(409)	217
Prepaid expenses and other current assets	227	63
Deferred costs	—	(2)
Other assets	8	(3)
Increase (decrease) in operating liabilities:		
Accounts payable and accrued expenses	138	2
Accrued severance expense	45	(38)
Accrued interest-convertible notes	—	498
Other liabilities	—	(564)
Net cash used in operating activities	(5,725)	(6,442)
<b>Investing activities</b>		
Purchase of property and equipment	(97)	(145)
Purchase of short-term investments	—	(4,700)
Proceeds from sales of property and equipment	3	—
Maturities of short-term investments	4,693	2,800
Net cash provided by (used in) investing activities	4,599	(2,045)
<b>Financing activities</b>		
Proceeds from private placement of convertible notes	—	12,677
Payment of deferred financing costs	—	(992)
Net cash provided by financing activities	—	11,685
Effect of exchange rates on cash	(17)	(2)
Net increase (decrease) in cash and cash equivalents	(1,143)	3,196

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Cash and cash equivalents, beginning of year		3,449		253
Cash and cash equivalents, end of year	\$	2,306	\$	3,449
Supplemental disclosure of cash flow information				
Cash paid for interest	\$	—	\$	36
Cash paid for taxes	\$	1	\$	3
Supplemental disclosure of non-cash investing and financing activities				
Convertible note issued on debt exchange	\$	—	\$	5,300
Stock issued upon conversion of convertible notes	\$	—	\$	17,977
Stock issued upon conversion of accrued interest of convertible notes	\$	—	\$	272

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

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1 — Organization and Nature of Operations

Nephros, Inc. (“Nephros” or the “Company”) was incorporated under the laws of the State of Delaware on April 3, 1997. Nephros was founded by health professionals, scientists and engineers affiliated with Columbia University to develop advanced End Stage Renal Disease (“ESRD”) therapy technology and products. The Company has three products in various stages of development in the hemodiafiltration, or HDF, modality to deliver improved therapy for ESRD patients. These are the OLpur™ MDHDF filter series or “dialyzers,” designed expressly for HDF therapy, the OLpur™ H2H™, an add-on module designed to allow the most common types of hemodialysis machines to be used for HDF therapy, and the OLpur™ NS2000 system, a stand-alone hemodiafiltration machine and associated filter technology. In 2006, the Company introduced its Dual Stage Ultrafilter (“DSU”) water filter system, which represents a new and complementary product line to the Company’s existing ESRD therapy business. The DSU incorporates the Company’s unique and proprietary dual stage filter architecture.

On June 4, 2003, Nephros International Limited was incorporated under the laws of Ireland as a wholly-owned subsidiary of the Company. In August 2003, the Company established a European Customer Service and financial operations center in Dublin, Ireland.

Note 2 — Basis of Presentation and Significant Accounting Policies

Principles of Consolidation

The accompanying consolidated financial statements include the accounts of the Company and its wholly owned subsidiary, Nephros International Limited. All intercompany accounts and transactions have been eliminated in consolidation.

Use of Estimates in the Preparation of Financial Statements

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.

Going Concern and Management’s Response

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. The Company’s recurring losses and difficulty in generating sufficient cash flow to meet its obligations and sustain its operations raise substantial doubt about its ability to continue as a going concern. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty. Based on the Company’s current cash flow projections, it will need to raise additional funds through either the licensing or sale of its technologies or additional public or private offerings of its securities. The Company continues to investigate strategic funding opportunities as they are identified. However, there is no guarantee that the Company will be able to obtain further financing. If it is unable to raise additional funds on a timely basis or at all, the Company would not be able to continue its operations.

The Company has incurred significant losses in its operations in each quarter since inception. For the years ended December 31, 2008 and 2007, the Company has incurred net losses of \$6,337,000 and \$26,356,000, respectively. In addition, the Company has not generated positive cash flow from operations for the years ended December 31, 2008 and 2007. To become profitable, the Company must increase revenue substantially and achieve and maintain positive gross and operating margins. If the Company is not able to increase revenue and gross and operating margins sufficiently to achieve profitability, the Company's results of operations and financial condition will be materially and adversely affected.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

The Company's current operating plans primarily include the continued development and support of the Company's business in the European market, organizational changes necessary to begin the commercialization of the Company's water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation.

The Company's independent registered public accounting firm has included a paragraph in its audit report regarding the Company's ability to continue as a going concern.

There can be no assurance that the Company's future cash flow will be sufficient to meet its obligations and commitments. If the Company is unable to generate sufficient cash flow from operations in the future to service its commitments the Company will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing its planned activities or ceasing its operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable the Company to continue to satisfy its capital requirements

The Company continues to investigate additional funding opportunities, talking to various potential investors who could provide financing. However, there can be no assurance that the Company will be able to obtain further financing, do so on reasonable terms or do so on terms that would not substantially dilute the equity interests in the Company. If the Company is unable to raise additional funds on a timely basis, or at all, the Company will not be able to continue its operations.

NYSE Alternext US LLC (formerly, the American Stock Exchange or "AMEX") Issues

On September 27, 2007, the Company received a warning letter from the AMEX stating that the staff of the AMEX Listing Qualifications Department had determined that the Company was not in compliance with Section 121B(2)(c) of the AMEX Company Guide requiring that at least 50% of the directors of the Company's board of directors are independent directors. This non-compliance was due to the fact that William J. Fox, Judy Slotkin, W. Townsend Ziebold and Howard Davis resigned from the Company's board of directors on September 19, 2007, concurrently with the appointment of Paul Mieyal and Arthur Amron to the board of directors, in accordance with the Company's September 2007 financing. Consequently, the Company's board of directors consisted of five directors, two of whom were independent. The AMEX had given the Company until December 26, 2007 to regain compliance with the independence requirements. On November 16, 2007, James S. Scibetta was appointed to serve as an independent director on the Company's board of directors. On December 5, 2007 the Company received a letter from the AMEX acknowledging that the Company had resolved the continued listing deficiency identified in their September 27, 2007 letter.

On September 12, 2008, the Company received a letter from the AMEX notifying the Company of its noncompliance with certain continued listing standards. The following are the listing standards that the Company was in noncompliance of:

- Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;

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- Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and
- Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

In response to that letter, the Company submitted a plan of compliance to the AMEX on October 13, 2008 advising the AMEX of the actions the Company has taken, or will take, that would bring it into compliance with the continued listing standards by April 30, 2009.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

Subsequent to December 31, 2008, on January 8, 2009, the Company received a letter from the AMEX notifying the Company that it was rejecting the plan. The AMEX further notified the Company that the AMEX intends to strike the common stock from the AMEX by filing a delisting application with the Securities and Exchange Commission pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, the Company decided not to seek an appeal of the AMEX's intention to delist the Company's common stock.

On January 22, 2009, the Company was informed by the AMEX that the AMEX had suspended trading in the Company's common stock effective immediately. Immediately following the notification, the Company's common stock was no longer traded on the AMEX.

Effective February 4, 2009, the Company's common stock is now quoted on the Over the Counter Bulletin Board under the symbol "NEPH.OB".

Cash and Cash Equivalents

The Company invests its excess cash in bank deposits and money market accounts. The Company considers all highly liquid investments purchased with original maturities of three months or less from the date of purchase to be cash equivalents. Cash equivalents are carried at fair value, which approximate cost, and primarily consist of money market funds maintained at major U.S. financial institutions.

Short-Term Investments

The Company had \$7,000 of short-term investments consisting of a certificate of deposit at December 31, 2008.

At December 31, 2007, the Company held short-term investments, carried at fair market value, primarily representing auction rate debt securities ("ARS"). These securities were classified as "available-for-sale." Management determines the appropriate classification of its short-term investments at the time of purchase and evaluates such designation as of each balance sheet date. Interest earned on short-term investments is included in interest income.

ARS are long-term debt instruments with interest rates reset through periodic short-term auctions.

See Note 3 for a further discussion of short-term investments as of December 31, 2008 and December 31, 2007.

Accounts Receivable

The Company provides credit terms to customers in connection with purchases of the Company's products. Management periodically reviews customer account activity in order to assess the adequacy of the allowances provided for potential collection issues and returns. Factors considered include economic conditions, each customer's payment and return history and credit worthiness. Adjustments, if any, are made to reserve balances following the completion of these reviews to reflect management's best estimate of potential losses. The allowance for doubtful accounts at December 31, 2008 and 2007 was \$4,000 and \$7,000, respectively. There was no allowance for sales returns at December 31, 2008 or 2007.





NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

Inventory

The Company engages third parties to manufacture and package inventory held for sale, takes title to certain inventory once manufactured, and warehouses such goods until packaged for final distribution and sale. Inventory consists of finished goods and raw materials (fiber) held at the manufacturers' facilities, and are valued at the lower of cost or market using the first-in, first-out method.

Patents

The Company has filed numerous patent applications with the United States Patent and Trademark Office and in foreign countries. All costs and direct expenses incurred in connection with patent applications have been expensed as incurred.

Property and Equipment, net

Property and equipment, net is stated at cost less accumulated depreciation. These assets are depreciated over their estimated useful lives of four to seven years using the straight line method.

Impairment for Long-Lived Assets

The Company adheres to SFAS No. 144, "Accounting for the Impairment on Disposal of Long-Lived Assets" and periodically evaluates whether current facts or circumstances indicate that the carrying value of its depreciable assets to be held and used may be recoverable. If such circumstances are determined to exist, an estimate of undiscounted future cash flows produced by the long-lived assets, or the appropriate grouping of assets, is compared to the carrying value to determine whether an impairment exists. If an asset is determined to be impaired, the loss is measured based on the difference between the asset's fair value and its carrying value. An estimate of the asset's fair value is based on quoted market prices in active markets, if available. If quoted market prices are not available, the estimate of fair value is based on various valuation techniques, including a discounted value of estimated future cash flows. The Company reports an asset to be disposed of at the lower of its carrying value or its estimated net realizable market value. There were no impairment losses for long-lived assets recorded for the years ended December 31, 2008 and December 31, 2007.

Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, short-term investments, accounts receivable, accounts payable and accrued expenses approximate fair value due to the short-term maturity of these instruments.

Revenue Recognition

Revenue is recognized in accordance with Securities and Exchange Commission Staff Accounting Bulletin No. 104 "Revenue Recognition" ("SAB No. 104"). SAB No. 104 requires that four basic criteria must be met before revenue can be recognized: (i) persuasive evidence of an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed or determinable; and (iv) collectibility is reasonably assured.

The Company recognizes revenue related to product sales when delivery is confirmed by its external logistics provider and the other criterion of SAB No. 104 are met. Product revenue is recorded net of returns and allowances. All costs and duties relating to delivery are absorbed by Nephros. All shipments are currently received directly by the Company's customers.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

Shipping and Handling Costs

Shipping and handling costs are recorded as cost of goods sold and are \$31,000 and \$35,000 for the years ended December 31, 2008 and 2007, respectively.

Research and Development Costs

Research and development costs are expensed as incurred.

Stock-Based Compensation

The Company accounts for stock-based compensation under the provisions of Statement of Financial Accounting Standards (“SFAS”) No. 123 (Revised 2004) “Share-Based Payment” (“SFAS 123R”). SFAS 123R requires the recognition of the fair value of stock-based compensation in net income. The fair value of the Company’s stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that the Company estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based awards is amortized over the vesting period of the award. For stock-based awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

Income Taxes

The Company accounts for income taxes in accordance with SFAS No. 109 “Accounting for Income Taxes,” which requires accounting for deferred income taxes under the asset and liability method. Deferred income taxes are recognized for the tax consequences of temporary differences by applying enacted statutory tax rates applicable in future years to differences between the financial statement carrying amounts and the tax basis of existing assets and liabilities.

For financial reporting purposes, the Company has incurred a loss in each period since its inception. Based on available objective evidence, including the Company’s history of losses, management believes it is more likely than not that the net deferred tax assets will not be fully realizable. Accordingly, the Company provided for a full valuation allowance against its net deferred tax assets at December 31, 2008 and December 31, 2007.

Effective January 1, 2007, the Company adopted the Financial Accounting Standards Board (“FASB”) Interpretation No. 48, Accounting for Uncertainty in Income Taxes—an interpretation of FASB Statement No. 109 (“FIN 48”). FIN 48 prescribes, among other things, a recognition threshold and measurement attributes for the financial statement recognition and measurement of uncertain tax positions taken or expected to be taken in a company’s income tax return. FIN 48 utilizes a two-step approach for evaluating uncertain tax positions accounted for in accordance with SFAS 109. Step one or recognition, requires a company to determine if the weight of available evidence indicates a tax position is more likely than not to be sustained upon audit, including resolution of related appeals or litigation processes, if any. Step two or measurement, is based on the largest amount of benefit, which is more likely than not to be realized on settlement with the taxing authority. The adoption of the provisions of FIN 48 did not have a material

impact on the Company's consolidated financial statements. During the year ended December 31, 2008, the Company recognized no adjustments for uncertain tax positions.

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## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

## Loss per Common Share

In accordance with SFAS No. 128 “Earnings per Share,” net loss per common share amounts (“basic EPS”) was computed by dividing net loss attributable to common stockholders by the weighted-average number of common shares outstanding and excluding any potential dilution. Net loss per common share amounts assuming dilution (“diluted EPS”) is generally computed by reflecting potential dilution from conversion of convertible securities and the exercise of stock options and warrants. The following securities have been excluded from the dilutive per share computation as they are antidilutive.

	2008	2007
Stock options	2,696,225	2,256,580
Warrants	11,090,248	11,090,248

## Foreign Currency Translation

Foreign currency translation is recognized in accordance with SFAS No. 52 “Foreign Currency Translation.” The functional currency of Nephros International Limited is the Euro and its translation gains and losses are included in accumulated other comprehensive income. The balance sheet is translated at the year-end rate. The statement of operations is translated at the weighted average rate for the year.

## Comprehensive Income (Loss)

The Company complies with the provisions of SFAS No. 130 “Reporting Comprehensive Income,” which requires companies to report all changes in equity during a period, except those resulting from investment by owners and distributions to owners, for the period in which they are recognized. Comprehensive income(loss) is the total of net income(loss) and all other non-owner changes in equity (or other comprehensive income (loss)) such as unrealized gains or losses on securities classified as available-for-sale and foreign currency translation adjustments. For the years ended December 31, 2008 and 2007, the comprehensive loss was approximately \$6,377,000 and \$26,258,000, respectively.

## Reclassification

Certain 2007 amounts were reclassified to conform to the 2008 presentation.

## Recent Accounting Pronouncements

In September 2006, the Financial Accounting Standards Board (“FASB”) issued SFAS No. 157, “Fair Value Measurements” (“SFAS 157”). This Standard defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. It applies to other accounting pronouncements where the FASB requires or permits fair value measurements but does not require any new fair value measurements. In February 2008, the FASB issued FASB Staff Position (FSP) No. 157-2, “Effective Date of FASB Statement No.157” (“FSP 157-2”), which delayed the effective date of SFAS 157 for certain non-financial assets and non-financial liabilities to fiscal years beginning after November 15, 2008, and interim periods within those fiscal years. The Company adopted SFAS

157 for financial assets and liabilities on January 1, 2008. The disclosures required under SFAS 157 are set forth in this note under fair value of financial instruments. The Company is currently in the process of evaluating the effect, if any, that the adoption of FSP 157-2 will have on its consolidated financial statements.

In February 2007, the FASB issued SFAS No. 159, "The Fair Value Option for Financial Assets and Financial Liabilities-Including an amendment of FASB Statement No. 155" ("SFAS 159"). This statement permits entities to choose to measure selected assets and liabilities at fair value. The Company adopted SFAS 159 on January 1, 2008 resulting in no material impact to the Company's consolidated financial statements.

On October 10, 2008, the FASB issued FSP FAS No. 157-3, "Fair Value Measurements" (FSP FAS 157-3), which clarifies the application of SFAS No. 157 in an inactive market and provides an example to demonstrate how the fair value of a financial asset is determined when the market for that financial asset is inactive. FSP FAS 157-3 was effective upon issuance, including prior periods for which financial statements had not been issued. The adoption of this standard as of September 30, 2008 did not have a material impact on the Company's consolidated financial statements.

NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 2 — Basis of Presentation and Significant Accounting Policies – (continued)

In December 2007, the FASB issued SFAS No. 141 (revised 2007), “Business Combinations” (“SFAS 141R”). SFAS 141R establishes principles and requirements for how the acquirer in a business combination recognizes and measures in its financial statements the fair value of identifiable assets acquired, the liabilities assumed and any noncontrolling interest in the acquiree at the acquisition date. SFAS 141R determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. SFAS 141R applies prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. Early application is not permitted. The effect of SFAS 141R on the Company’s consolidated financial statements will be dependent on the nature and terms of any business combinations that occur after its effective date.

In December 2007, the FASB issued SFAS No. 160, “Noncontrolling Interests in Consolidated Financial Statements” (“SFAS 160”), an amendment of Accounting Research Bulletin (“ARB”) No. 51, “Consolidated Financial Statements” (“ARB 51”). SFAS 160 establishes accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. Minority interests will be recharacterized as noncontrolling interests and will be reported as a component of equity separate from the parent’s equity, and purchases or sales of equity interests that do not result in a change in control will be accounted for as equity transactions. In addition, net income attributable to the noncontrolling interest will be included in consolidated net income on the face of the income statement and upon a loss of control, the interest sold, as well as any interest retained, will be recorded at fair value with any gain or loss recognized in earnings. This pronouncement is effective for fiscal years beginning after December 15, 2008. The Company is currently evaluating the impact of adopting SFAS 160 on its consolidated financial statements.

In March 2008, the FASB issued SFAS No. 161, “Disclosures about Derivative Instruments and Hedging Activities” (“SFAS 161”). SFAS 161 requires enhanced disclosures about an entity’s derivative and hedging activities and thereby improves the transparency of financial reporting. The objective of the guidance is to provide users of financial statements with an enhanced understanding of how and why an entity uses derivative instruments: how an entity accounts for derivative instruments and related hedged items and how derivative instruments and related hedged items affect an entity’s financial position, financial performance, and cash flows. SFAS 161 is effective for fiscal years beginning after November 15, 2008. Management has evaluated SFAS 161 and has determined that it will have no impact on the Company’s consolidated financial statements.

In May 2008, the FASB issued SFAS No. 162, “The Hierarchy of Generally Accepted Accounting Principles.” SFAS No. 162 identifies the sources of accounting principles and the framework for selecting the principles to be used in the preparation of financial statements of nongovernmental entities that are presented in conformity with generally accepted accounting principles in the United States. It is effective 60 days following the SEC’s approval of the Public Company Accounting Oversight Board amendments to AU Section 411, “The Meaning of Present Fairly in Conformity With Generally Accepted Accounting Principles.” The adoption of this statement is not expected to have a material effect on the Company’s consolidated financial statements.

In December 2007, the Securities and Exchange Commission (“SEC”) issued SAB No. 110, “Share-Based Payment” (“SAB 110”). SAB 110 establishes the continued use of the simplified method for estimating the expected term of equity based compensation. The simplified method was intended to be eliminated for any equity based compensation arrangements granted after December 31, 2007. SAB 110 was issued to help companies that may not have adequate exercise history to estimate expected terms for future grants. The application of SAB 110 did not have a material

effect on the Company's consolidated financial statements.

Note 3 — Short-Term Investments

SFAS No. 157 provides a framework for measuring fair value under generally accepted accounting principles in the United States and requires expanded disclosures regarding fair value measurements. SFAS No. 157 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. SFAS No. 157 also establishes a fair value hierarchy that requires an entity to maximize the use of observable inputs, where available, and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1 — Quoted prices in active markets for identical assets or liabilities.

Level 2 — Observable inputs, other than Level 1 prices, such as quoted prices in active markets for similar assets and liabilities, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3 — Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities, including certain pricing models, discounted cash flow methodologies and similar techniques.



## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 3 — Short-Term Investments – (continued)

The following table details the fair value measurements within the fair value hierarchy of the Company's financial assets at December 31, 2008:

	Total Fair Value at December 31, 2008	Fair Value Measurements at Reporting Date Using		
		Level 1	Level 2	Level 3
Certificates of deposit	\$ 7,000	\$ 7,000	\$ —	\$ —
<b>Total</b>	<b>\$ 7,000</b>	<b>\$ 7,000</b>	<b>\$ —</b>	<b>\$ —</b>

The following table reflects the activity for the Company's ARS measured at fair value using Level 3 inputs for the year ended December 31, 2008:

	Auction Rate Securities
Balance as of December 31, 2007	\$ 4,700,000
Sale of Securities	(4,700,000)
Gain on sale of investments	114,000
Impairment of auction rate securities	(114,000)
Balance as of December 31, 2008	\$ —

As of December 31, 2008, the Company had grouped certificates of deposit using a Level 1 valuation because market prices are readily available in active markets.

The Company invested in auction rate securities ("ARS"), which are long-term debt instruments with interest rates reset through periodic short-term auctions. If there are insufficient buyers when such a periodic auction is held, then the auction "fails" and the holders of the ARS are unable to liquidate their investment through such auction. With the liquidity issues experienced in global credit and capital markets, the ARS held by the Company experienced multiple failed auctions in the first quarter of fiscal year 2008. As a result of the failed auctions, the Company did not consider the affected ARS liquid and accordingly, the Company classified its ARS as noncurrent assets as of March 31, 2008.

Based upon an analysis of other-than-temporary impairment factors, the Company wrote down ARS with an original par value of \$4,400,000 to an estimated fair value of \$4,286,000 as of March 31, 2008. The Company reviewed impairments associated with the above in accordance with Emerging Issues Task Force ("EITF") 03-1 and FASB Staff Position SFAS 115-1 and SFAS 124-1, "The Meaning of Other-Than-Temporary-Impairment and Its Application to Certain Investments," to determine the classification of the impairment as "temporary" or "other-than-temporary." The Company determined the ARS classification to be "other-than-temporary", and charged an impairment loss of \$114,000 on the ARS to its results of operations during the three months ended March 31, 2008. Subsequently during the three months ended June 30, 2008, \$300,000 of principal on the Company's ARS had been paid back from the debtor. As a result of the payment, the Company's investment decreased from a par value of \$4,400,000 to approximately \$4,100,000. The net book value of the Company's ARS at June 30, 2008 was \$3,986,000. On July 22, 2008, the Company sold its ARS to a third party at 100% of par value, for proceeds of \$4,100,000 and as a result, the Company reclassified the ARS from Available-for-Sale to Trading Securities.

In accordance with SFAS No. 115, "Accounting for Certain Investments in Debt and Equity Securities," the ARS, classified as Trading Securities, were valued at their fair value of \$4,100,000 at June 30, 2008. The adjustment of the ARS' carrying value from \$3,986,000 net book value to \$4,100,000 fair value resulted in an Unrealized Holding Gain of \$114,000 which was recorded in the Company's Consolidated Statement of Operations for the three and six months ended June 30, 2008. As a result of the sale of investment on July 22, 2008, the Company reclassified the unrealized holding gain of \$114,000 to a realized gain on sale of investments.

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## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 4 — Inventory

The Company's inventory components as of December 31, 2008 and 2007, were as follows:

	December 31,	
	2008	2007
Raw Materials	\$ 382,000	\$ 62,000
Finished Goods	342,000	304,000
Total Gross Inventory	724,000	366,000
Less: Inventory reserve	—	30,000
Total Inventory	\$ 724,000	\$ 336,000

During 2007, the design of the Dual Stage Ultra Filter product was changed. Accordingly, at December 31, 2007, this inventory has been written off as research and development and clinical trial expense in the amount of \$82,000.

## Note 5 — Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets as of December 31, 2008 and 2007, were as follows:

	December 31,	
	2008	2007
Prepaid insurance premiums	\$ 88,000	\$ 211,000
Advances on product development services	—	96,000
Other	74,000	85,000
Prepaid expenses and other current assets	\$ 162,000	\$ 392,000

## Note 6 — Property and Equipment, Net

Property and equipment as of December 31, 2008 and 2007, was as follows:

	Life	December 31,	
		2008	2007
Manufacturing equipment	5 years	\$ 2,057,000	\$ 2,028,000
Research equipment	5 years	91,000	91,000
Computer equipment	4 years	61,000	70,000
Furniture and fixtures	7 years	39,000	39,000
Leasehold improvements	Term of lease	—	15,000
		2,248,000	2,243,000
Less: accumulated depreciation		1,836,000	1,481,000
Property and equipment, net		\$ 412,000	\$ 762,000

The Company contracts with a contract manufacturer ("CM") to manufacture the Company's ESRD therapy products. The Company owns certain manufacturing equipment located at CM's manufacturing plant.

Depreciation expense for the years ended December 31, 2008 and 2007 was \$447,000 and \$352,000, respectively, including amortization expense relating to research and development assets.



## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 7 — Accrued Expenses

Accrued expenses as of December 31, 2008 and 2007 were as follows:

	December 31,	
	2008	2007
Accrued Clinical Trial	\$ 102,000	\$ 223,000
Accrued Management Bonus and Directors' Compensation	119,000	—
Accrued Accounting	75,000	218,000
Accrued Legal	32,000	123,000
Accrued Other	83,000	217,000
	\$ 411,000	\$ 781,000

## Note 8 — Convertible Notes

## Convertible Notes Due 2012

In June 2006, the Company entered into subscription agreements with certain investors who purchased an aggregate of \$5,200,000 principal amount of 6% Secured Convertible Notes due 2012 (the "Old Notes") issued by the Company for the face value thereof. The Company closed on the sale of the first tranche of Old Notes, in an aggregate principal amount of \$5,000,000, on June 1, 2006 (the "First Tranche") and closed on the sale of the second tranche of Old Notes, in an aggregate principal amount of \$200,000, on June 30, 2006 (the "Second Tranche"). The Old Notes were secured by substantially all of the Company's assets.

The Old Notes contain a prepayment feature that requires the Company to issue common stock purchase warrants to the holders for partial consideration of certain prepayments that the holders may demand under certain circumstances. Pursuant to the Old Notes, the Company must offer the holders the option (the "Holder Prepayment Option") of prepayment (subject to applicable premiums) of their Old Notes, if the Company completes an asset sale in excess of \$250,000 outside the ordinary course of business (a "Major Asset Sale"), to the extent of the net cash proceeds of such Major Asset Sale. Paragraph 12 of SFAS No. 133, "Accounting for Derivative Instruments and Hedging Activities", (SFAS 133"), provides that an embedded derivative shall be separated from the host contract and accounted for as a derivative instrument if and only if certain criteria are met. In consideration of SFAS 133, the Company has determined that the Holder Prepayment Option is an embedded derivative to be bifurcated from the Old Notes and carried at fair value in the financial instruments. The Company recorded an embedded derivative liability of \$71,000 in the 3rd quarter of 2006. The change in value of the derivative liability was recorded as other income (expense). The change in value amounted to \$7,000 through September 19, 2007, the Exchange Date. Also, the debt discount, of \$71,000, created by bifurcating the Holder Prepayment Option, was being amortized over the term of the debt. The amortization of the debt discount through September 19, 2007, the Exchange Date, was recorded as interest expense and amounted to \$8,000.

On September 19, 2007, the Old Notes were exchanged for New Notes as described under the heading "Convertible Notes due 2008."

## Convertible Notes Due 2008

The Company entered into a Subscription Agreement (“Subscription Agreement”) with Lambda Investors LLC (“Lambda”) on September 19, 2007 (the “First Closing Date”), GPC 76, LLC on September 20, 2007, Lewis P. Schneider on September 21, 2007 and Enso Global Equities Partnership LP (“Enso”) on September 25, 2007 (collectively, the “New Investors”) pursuant to which the New Investors purchased an aggregate of \$12,677,000 principal amount of Series A 10% Secured Convertible Notes due 2008 (the “Purchased Notes”) of the Company, for the face value thereof (the “Offering”). Concurrently with the Offering, the Company entered into an Exchange Agreement (the “Exchange Agreement”) with each of Southpaw Credit Opportunities Master Fund LP, 3V Capital Master Fund Ltd., Distressed/High Yield Trading Opportunities, Ltd., Kudu Partners, L.P. and LJHS Company (collectively, the “Exchange Investors” and together with the New Investors, the “Investors”), pursuant to which the Exchange Investors agreed to exchange the principal and accrued but unpaid interest in an aggregate amount of \$5,600,000 under the Old Notes, for new Series B 10% Secured Convertible Notes due 2008 in an aggregate principal amount of \$5,300,000 (the “Exchange Notes”, and together with the Purchased Notes, the “New Notes”) (the “Exchange”, and together with the Offering, the “Financing”).

NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 8 — Convertible Notes – (continued)

The Company has obtained the approval of its stockholders representing a majority of its outstanding shares to the issuance of shares of its common stock issuable upon conversion of the New Notes and exercise of the Class D Warrants (as defined below) issuable upon such conversion, as further described below. The stockholder approval was effective on November 13, 2007. Accordingly, the New Notes were converted into common stock of the Company on November 14, 2007.

Upon effectiveness of such approval, all principal and accrued but unpaid interest (the “Conversion Amount”) under the New Notes automatically converted into (i) shares of the Company’s common stock at a conversion price per share of the Company’s common stock (the “Conversion Shares”) equal to \$0.706 and (ii) in the case of the Purchased Notes, but not the Exchange Notes, Class D Warrants (the “Class D Warrants”) for purchase of shares of the Company’s common stock (the “Warrant Shares”) in an amount equal to 50% of the number of shares of the Company’s common stock issued to the New Investors in accordance with clause (i) above with an exercise price per share of the Company’s common stock equal to \$0.90 (subject to anti-dilution adjustments).

National Securities Corporation (“NSC”) and Dinosaur Securities, LLC (“Dinosaur” and together with NSC, the “Placement Agent”) acted as co-placement agents in connection with the Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The Placement Agent received (i) an aggregate cash fee equal to 8% of the face amount of the Lambda Purchased Note and the Enso Purchased Note allocated and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants (“Placement Agent Warrant”) with a term of five years from the date of issuance to purchase 10% of the aggregate number of shares of the Company’s common stock issued upon conversion of the Lambda Purchased Note and the Enso Purchased Note with an exercise price per share of the Company’s common stock equal to \$0.90.

The Company recorded a debt discount related to the issuance of the Exchange Notes, of \$785,000 and was amortizing the discount over the term of the Exchange Notes. The amortization of the debt discount through November 14, 2007, the Automatic Conversion Date, was recorded as interest expense and amounted to \$120,000. The remaining balance of the debt discount of \$665,000 was written off to interest expense when the Exchange Notes were converted into common stock.

On October 24, 2007, the SEC accepted the Schedule 14C filed by the Company thereby setting the “Automatic Conversion Date” of both the Series A and Series B Notes to be November 14, 2007. The acceptance date also became the measurement date to calculate the value of the embedded beneficial conversion feature in each note and the detachable warrants included in the Series A Notes.

The Company allocated the proceeds from the sale of the Purchased Notes between the Purchased Notes and the Class D Warrants based upon their relative fair values, resulting in the recognition of a discount of \$3,763,000. The value of the Class D Warrants was computed using the Black-Scholes option pricing model. Second, in accordance with EITF No. 00-27, “Application of Issue 98 - 5 to Certain Convertible Instruments” after allocating a portion of the Purchased Notes proceeds to the Class D Warrants, the Company calculated the value of the embedded beneficial conversion feature in the Purchased Notes by comparing the carrying value of the proceeds, net of the warrant discount, to the fair value of the shares issuable upon conversion of the Purchased Notes. If there is a beneficial conversion, it is recognized, as an additional discount to the extent of the remaining proceeds. The Company recognized an additional discount of approximately \$8,914,000 for the embedded beneficial conversion feature. The amortization of the

discount and beneficial conversion feature through November 14, 2007, the Automatic Conversion Date, was recorded as interest expense and amounted to \$239,000 and \$566,000. The remaining balances of the discount of \$3,524,000 and beneficial conversion feature of \$8,348,000 were written off to interest expense when the Purchased Notes were converted into common stock. On November 14, 2007 the Purchased Notes, in aggregate principal amount of \$12,677,000, and related accrued interest of \$190,000, were converted into an aggregate of 18,225,128 shares of common stock.

In accordance with EITF No. 98-5, "Accounting for Convertible Securities with Beneficial Conversion Features or Contingently Adjustable Conversion Ratios," the Company calculated the value of the embedded beneficial conversion feature in the Exchange Notes by comparing the carrying value of the proceeds to the fair value of the shares issuable upon conversion of the Exchange Notes. The Company recognized a discount of \$4,515,000 for the embedded beneficial conversion feature. The amortization of the beneficial conversion feature through November 14, 2007, the Automatic Conversion Date, was recorded as interest expense and amounted to \$286,000. The remaining balance of the beneficial conversion feature of \$4,229,000 was written off to interest expense when the Exchange Notes were converted into common stock. On November 14, 2007 the Exchange Notes, in aggregate principal amount of \$5,300,000, and related accrued interest of \$81,000, were converted into an aggregate of 7,622,259 shares of common stock.



## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 8 — Convertible Notes – (continued)

As compensation for its services as co-placement agents, National Securities Corporation and Dinosaur Securities, LLC, received cash in the amount of \$775,000 and \$217,000 and five-year warrants to purchase an aggregate of 1,756,374 shares of the Company's common stock at an exercise price of \$0.90 per share. These warrants contain a "cashless exercise" option. The total fee of \$2,039,000, including the fair value of the warrants issued, was recorded as deferred financing costs. The deferred costs were written off and recorded as interest expense on November 14, 2007, the Automatic Conversion Date.

## Acceleration of Non Cash Charges Upon Conversion of New Notes

The conversion of the New Notes to equity on November 14, 2007 resulted in an aggregate non-cash charge of \$17,985,000, of which \$13,429,000 relates to the amortization of the beneficial conversion features and \$4,556,000 relates to the amortization of the debt discount.

## Note 9 — Income Taxes

A reconciliation of the income tax provision computed at the statutory tax rate to the Company's effective tax rate is as follows:

	2008	2007
U.S. federal statutory rate	35.00%	35.00%
State & local taxes	10.79%	11.26%
Tax on foreign operations	(1.36)%	(0.51)%
Other	(3.03)%	(1.21)%
Valuation allowance	(44.11)%	(45.53)%
Effective tax rate	(2.71)%	(0.99)%

Significant components of the Company's deferred tax assets as of December 31, 2008 and 2007 are as follows:

	2008	2007
Deferred tax assets:		
Net operating loss carry forwards	\$ 29,357,000	\$ 26,734,000
Research and development credits	957,000	896,000
Nonqualified stock option compensation expense	1,751,000	1,703,000
Other temporary book – tax differences	(63,000)	2,000
Total deferred tax assets	32,002,000	29,335,000
Valuation allowance for deferred tax assets	(32,002,000)	(29,335,000)
Net deferred tax assets	\$ —	\$ —

A valuation allowance has been recognized to offset the Company's net deferred tax asset as it is more likely than not that such net asset will not be realized. The Company primarily considered its historical loss and potential Internal Revenue Code Section 382 limitations to arrive at its conclusion that a valuation allowance was required.

At December 31, 2008, the Company had Federal, New York State and New York City income tax net operating loss carryforwards of \$60,584,000 each and foreign income tax net operating loss carryforwards of \$8,997,000. The Company also had Federal research tax credit carryforwards of \$957,000 at December 31, 2008 and \$896,000 at December 31, 2007. The Federal net operating loss and tax credit carryforwards will expire at various times between 2012 and 2026 unless utilized. During 2008, the Company received \$147,000 payroll based research and development credits from New York State.

On January 1, 2007, the Company adopted the provisions of FIN 48, "Accounting for Uncertainty in Income Taxes — An interpretation of FASB Statement No.109." Implementation of FIN 48 did not result in a cumulative effect adjustment to the accumulated deficit.

It is the Company's policy to report interest and penalties, if any, related to unrecognized tax benefits in income tax expense.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 10 — Stock Plans, Share-Based Payments and Warrants

Stock Plans

In 2000, the Company adopted the Nephros 2000 Equity Incentive Plan. In January 2003, the Board of Directors adopted an amendment and restatement of the plan and renamed it the Amended and Restated Nephros 2000 Equity Incentive Plan (the “2000 Plan”), under which 2,130,750 shares of common stock had been authorized for issuance upon exercise of options granted and which may have been granted by the Company.

As of December 31, 2007, 353,392 options had been issued to non-employees under the 2000 Plan and were outstanding. Such options expire at various dates between January 30, 2008 and March 15, 2014 all of which are fully vested. As of December 31, 2007, 1,082,137 options had been issued to employees under the 2000 Plan and were outstanding. Such options expire at various dates between December 31, 2009 and March 15, 2014 all of which are fully vested.

As of December 31, 2008, 220,888 options had been issued to non-employees under the 2000 Plan and were outstanding. Such options expire at various dates through March 15, 2014 all of which are fully vested. As of December 31, 2008, 916,506 options had been issued to employees under the 2000 Plan and were outstanding. Such options expire at various dates between December 31, 2009 and March 15, 2014 all of which are fully vested.

The Board retired the 2000 Plan in June 2004, and thereafter no additional awards may be granted under the 2000 Plan.

In 2004, the Board of Directors adopted and the Company’s stockholders approved the Nephros, Inc. 2004 Stock Incentive Plan, and, in June 2005, the Company’s stockholders approved an amendment to such plan (as amended, the “2004 Plan”), that increased to 800,000 the number of shares of the Company’s common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan. In May 2007, the Company’s stockholders approved an amendment to the 2004 Plan that increased to 1,300,000 the number of shares of the Company’s common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan. In addition, in June 2008, the Company’s stockholders approved an amendment to the 2004 Plan that increased to 2,696,976 the number of shares of the Company’s common stock that are authorized for issuance by the Company pursuant to grants of awards under the 2004 Plan.

As of December 31, 2007, 628,500 options had been issued to employees under the 2004 Plan and were outstanding. The options expire on various dates between December 14, 2014 and September 15, 2018, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years. At December 31, 2007, there were 478,948 shares available for future grants under the 2004 Plan. As of December 31, 2007, 192,552 options had been issued to non-employees under the 2004 Plan and were outstanding. Such options expire at various dates between November 11, 2014 and November 30, 2017, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

As of December 31, 2008, 1,366,279 options had been issued to employees under the 2004 Plan and were outstanding. The options expire on various dates between December 14, 2014 and November 8, 2017, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years. At December 31, 2008, there were 2,050,924 shares available for future grants under the 2004 Plan. As of December 31, 2008, 192,552 options had been

issued to non-employees under the 2004 Plan and were outstanding. Such options expire at various dates between November 11, 2014 and November 30, 2017, and vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

#### Share-Based Payment

Prior to the Company's initial public offering, options were granted to employees, non-employees and non-employee directors at exercise prices which were lower than the fair market value of the Company's stock on the date of grant. After the date of the Company's initial public offering, stock options are granted to employees, non-employees and non-employee directors at exercise prices equal to the fair market value of the Company's stock on the date of grant. Stock options granted have a life of 10 years. Unvested options as of December 31, 2008 currently vest upon a combination of the following: immediate vesting or straight line vesting of two or four years.

Expense is recognized, net of expected forfeitures, over the vesting period of the options. For options that vest upon the achievement of certain milestones, expense is recognized when it is probable that the condition will be met. Stock based compensation expense recognized for the years ended December 31, 2008 and 2007 was approximately \$155,000 or less than \$0.01 per share and approximately \$885,000 or \$0.06 per share, respectively.

## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 10 — Stock Plans, Share-Based Payments and Warrants – (continued)

The fair value of each option grant is estimated on the date of grant using the Black-Scholes option pricing model with the below assumptions related to risk-free interest rates, expected dividend yield, expected lives and expected stock price volatility.

Grant Year	Option Pricing Assumptions	
	2008	2007
Stock Price Volatility	89%-90%	84% – 86%
Risk-Free Interest Rates	3.45% to 3.47%	3.97% to 4.83%
Expected Life (in years)	6.25	5.8 to 6.0
Expected Dividend Yield	0%	0%

Expected volatility is based on historical volatility of the Company's common stock at the time of grant. The risk-free interest rate is based on the U.S. Treasury yields in effect at the time of grant for periods corresponding with the expected life of the options. For the expected life, the Company is using the simplified method as described in the SEC Staff Accounting Bulletin 107. This method assumes that stock option grants will be exercised based on the average of the vesting periods and the option's life.

The total fair value of options vested during the fiscal year ended December 31, 2008 was approximately \$102,000. The total fair value of options vested during the fiscal year ended December 31, 2007 was approximately \$1,473,000.

The following table summarizes information about stock options outstanding and exercisable at December 31, 2008:

Range of Exercise Price	Options Outstanding		Options Exercisable		
	Number Outstanding as of December 31, 2008	Weighted Average Remaining Contractual Life in Years	Weighted Average Exercise Price	Number Exercisable as of December 31, 2008	Weighted Average Exercise Price
\$0.32 - \$0.37	1,270,471	5.7	\$ 0.35	520,471	\$ 0.32
\$0.75	375,000	9.3	\$ 0.75	—	\$ —
\$0.80 – \$1.49	306,279	1.9	\$ 1.15	285,446	\$ 1.17
\$1.76	165,630	4.4	\$ 1.76	165,630	\$ 1.76
\$2.32 – \$2.64	335,703	4.8	\$ 2.42	335,703	\$ 2.42
\$2.78 – \$4.80	243,142	4.6	\$ 3.23	243,142	\$ 3.23
Total Outstanding	2,696,225		\$ 1.10	1,550,392	\$ 1.54

The number of new options granted in 2008 and 2007 is 1,125,000 and 610,000, respectively. The weighted-average fair value of options granted in 2008 and 2007 is \$0.38 and \$0.76, respectively.



## NEPHROS, INC.

## NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

## Note 10 — Stock Plans, Share-Based Payments and Warrants – (continued)

The following table summarizes the option activity for the years ended December 31, 2008 and 2007:

	Shares	Weighted Average Exercise Price
Outstanding at December 31, 2007	2,256,580	\$ 1.53
Options granted	1,125,000	\$ 0.50
Options canceled	(685,355)	\$ 1.46
Outstanding at December 31, 2008	2,696,225	\$ 1.10
Expected to vest at December 31, 2008	1,079,375	\$ 0.50
Exercisable at December 31, 2008	1,550,392	\$ 1.54

The aggregate intrinsic value of stock options outstanding at December 31, 2008 and the stock options vested or expected to vest is \$0. A stock option has intrinsic value, at any given time, if and to the extent that the exercise price of such stock option is less than the market price of the underlying common stock at such time. The weighted-average remaining contractual life of options vested or expected to vest is 6.4 years.

As of December 31, 2008, the total remaining unrecognized compensation cost related to non-vested stock options amounted to \$355,000 and will be amortized over the weighted-average remaining requisite service period of 3.4 years.

## Warrants

**Class D Warrants** — As disclosed above in Note 8, the Company issued Class D Warrants to purchase an aggregate of 9,112,566 shares of the Company's common stock to the Investors upon conversion of the Purchased Notes. The Company recorded the issuance of the Class D Warrants at their approximate fair market value of \$3,763,000. The value of the Class D Warrants was computed using the Black-Scholes option pricing model.

**Placement Agent Warrants** — As disclosed above in Note 8, the Company issued Placement Agent Warrants to purchase an aggregate of 1,756,374 shares of the Company's common stock to the Company's placement agents in connection with their roles in the Offering. The Company recorded the issuance of the Placement Agent Warrants at their approximate fair market value of \$1,047,000. The value of the Placement Agent Warrants was computed using the Black-Scholes option pricing model.

The following table summarizes certain terms of all of the Company's outstanding warrants at December 31, 2008.

## Total Outstanding Warrants

Title of Warrant	Date Issued	Expiry Date	Exercise Price	Total Common Shares Issuable
IPO Underwriter Warrants	3/24/2005	9/20/2009	\$ 7.50	200,000
Lancer Warrants	1/18/2006	1/18/2009	\$ 1.50	21,308

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Class D Warrants	11/14/2007	11/14/2012	\$ 0.90	9,112,566
Placement Agent Warrants	11/14/2007	11/14/2012	\$ 0.90	1,756,374
Total all Outstanding Warrants			\$ 1.02 (1)	11,090,248

(1) Weighted average.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 11 — 401(k) Plan

The Company has established a 401(k) deferred contribution retirement plan (the “401(k) Plan”) which covers all employees. The 401(k) Plan provides for voluntary employee contributions of up to 15% of annual earnings, as defined. As of January 1, 2004, the Company began matching 100% of the first 3% and 50% of the next 2% of employee earnings to the 401(k) Plan. The Company contributed and expensed \$29,000 and \$50,000 in 2008 and 2007, respectively.

Note 12 — Commitments and Contingencies

Settlement Agreements

Plexus Services Corp.

In June 2002, the Company entered into a settlement agreement with one of its suppliers, Plexus Services Corp. The Company had an outstanding liability to such supplier in the amount of \$1,900,000. Pursuant to this settlement agreement, the Company and the supplier agreed to release each other from any and all claims or liabilities, whether known or unknown, that each had against the other as of the date of the settlement agreement, except for obligations arising out of the settlement agreement itself. The settlement agreement required the Company to grant to the supplier (i) warrants to purchase 170,460 shares of common stock of the Company at an exercise price of \$10.56 per share which expired on June 2007 and (ii) cash payments of an aggregate amount of \$650,000 in three installments. The warrants were valued at \$400,000 using the Black-Scholes model. Accordingly, the Company recorded a gain of \$850,000 based on such settlement agreement. On June 19, 2002, the Company issued the warrant to the supplier, and on August 7, 2002, the Company satisfied the first \$300,000 installment of the agreement. The second installment of \$100,000 was due on February 7, 2003, and the Company paid \$75,000 towards the installment. On November 11, 2004, after the successful closing of its initial public offering, the Company paid an additional \$25,000 and agreed with the supplier to pay the remaining \$250,000 over time. The final payment of \$25,000 was paid on September 26, 2007.

Lancer Offshore, Inc.

In August 2002, the Company entered into a subscription agreement with Lancer Offshore, Inc. (“Lancer”), pursuant to which Lancer agreed to purchase, in several installments, (1) \$3,000,000 principal amount of secured convertible notes due March 15, 2003 and (2) warrants to purchase until December 2007 an aggregate of 68,184 shares of the Company’s common stock at an exercise price of \$8.80 per share. In accordance with the subscription agreement, the first installment of securities, consisting one-half of the total, were tendered. However, Lancer failed to fund the remaining installments. Following this failure, the Company entered into a settlement agreement with Lancer dated as of January 31, 2003, pursuant to which, among other things, the \$1,500,000 secured convertible note issued to Lancer in August 2002 was cancelled. However, Lancer never fulfilled the conditions to the subsequent closing under the settlement agreement and, accordingly, the Company never issued the \$1,500,000 non-convertible note that the settlement agreement provided would be issued at such closing.

The above transaction resulted in the Company becoming a defendant in an action brought by the Receiver for Lancer Offshore, Inc. (the “Ancillary Proceeding”) that was commenced on March 8, 2004. On December 19, 2005, the Court approved the Stipulation of Settlement with respect to the Ancillary Proceeding dated November 8, 2005 (the

“Settlement”). Pursuant to the terms of the Settlement, the Company agreed to pay the Receiver an aggregate of \$900,000 under the following payment terms: \$100,000 paid on January 5, 2006; and four payments of \$200,000 each at six month intervals thereafter. In addition, any warrants previously issued to Lancer were cancelled, and, on January 18, 2006, the Company issued to the Receiver warrants to purchase 21,308 shares of the Company’s common stock at \$1.50 per share exercisable until January 18, 2009. The final payment of \$400,000 was made on October 3, 2007.

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 12 — Commitments and Contingencies – (continued)

Manufacturing and Suppliers

The Company does not intend to manufacture any of its products or components. The Company has entered into an agreement dated May 12, 2003, and amended on March 22, 2005 with a contract manufacturer (“CM”), a developer and manufacturer of medical products, to assemble and produce the Company’s OLpur MD190, MD220 or other filter products at the Company’s option. The agreement requires the Company to purchase from CM the OLpur MD190s and MD220s or other filter products that the Company directly markets in Europe, or are marketed by our distributor. In addition, CM will be given first consideration in good faith for the manufacture of OLpur MD190s, MD220s or other filter products that the Company does not directly market. No less than semiannually, CM will provide a report to representatives of both parties to the agreement detailing any technical know-how that CM has developed that would permit them to manufacture the filter products less expensively and both parties will jointly determine the actions to be taken with respect to these findings. If the fiber wastage with respect to the filter products manufactured in any given year exceeds 5%, then CM will reimburse the Company up to half of the cost of the quantity of fiber represented by excess wastage. CM will manufacture the OLpur MD190 or other filter products in accordance with the quality standards outlined in the agreement. Upon recall of any OLpur MD190 or other filter product due to CM having manufactured one or more products that fail to conform to the required specifications or having failed to manufacture one or more products in accordance with any applicable laws, CM will be responsible for the cost of recall. The agreement also requires that the Company maintain certain minimum product-liability insurance coverage and that the Company indemnify CM against certain liabilities arising out of the Company’s products that they manufacture, providing they do not arise out of CM’s breach of the agreement, negligence or willful misconduct. The term of the agreement is through May 12, 2009, with successive automatic one-year renewal terms, until either party gives the other notice that it does not wish to renew at least 90 days prior to the end of the term. The agreement may be terminated prior to the end of the term by either party upon the occurrence of certain insolvency-related events or breaches by the other party. Although the Company has no separate agreement with respect to such activities, CM has also been manufacturing the Company’s DSU in limited quantities.

The Company also entered into an agreement in December 2003, and amended in June 2005, with a fiber supplier (“FS”), a manufacturer of medical and technical membranes for applications like dialysis, to continue to produce the fiber for the OLpur MDHDF filter series. Pursuant to the agreement, FS is the Company’s exclusive provider of the fiber for the OLpur MDHDF filter series in the European Union as well as certain other territories through September 2009. Notwithstanding the exclusivity provisions, the Company may purchase membranes from other providers if FS is unable to timely satisfy the Company’s orders.

The Company is committed to use one supplier for its production of products for sale in Europe; however no minimum purchase requirements are in effect.

Contractual Obligations

At December 31, 2008, the Company had an operating lease that will expire on November 30, 2011 for the rental of its U.S. office and research and development facilities as well as an operating lease that will expire on August 31, 2008, unless renewed for a twelve month period or a rolling six month lease, for the rental of its office in Ireland. Rent expense for the years ended December 31, 2008 and 2007 totaled \$222,000 and \$191,000, respectively.

## Contractual Obligations and Commercial Commitments

The following tables summarize our approximate minimum contractual obligations and commercial commitments as of December 31, 2008:

Contractual Obligations	Total	Payments Due in Period			
		Within 1 Year	Years 1 – 3	Years 3 – 5	More than 5 Years
Leases	\$ 296,000	\$ 115,000	\$ 181,000	\$ —	\$ —
Employment Contracts	1,066,250	425,000	641,250		
Total	\$ 1,362,250	\$ 540,000	\$ 822,250	\$ —	\$ —

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NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 12 — Commitments and Contingencies – (continued)

Registration Payment Arrangement

In September 2007, the Company issued \$12,677,000 and \$5,300,000 in convertible notes and, as partial compensation to placement agents in connection therewith, issued warrants to purchase an aggregate of 1,756,374 shares of common stock. Upon conversion of such notes in November 2007, the Company issued an aggregate of 25,847,388 shares of common stock and warrants to purchase an aggregate of 9,112,566 shares of common stock to the former holders of such notes. As part of such offering, the Company has entered into an arrangement requiring the Company to use its best efforts to file a registration statement with the SEC covering resale of the shares of common stock and for such registration statement to be declared effective on or prior to June 20, 2008 (the Effectiveness Date). The Initial Resale Registration Statement was declared effective on May 5, 2008.

Employee Severance Agreement

On September 19, 2007, in connection with Mr. Fox's resignation as Executive Chairman, Nephros and Mr. Fox entered into a Separation Agreement and Release (the "Separation Agreement"), pursuant to which the parties mutually agreed to terminate Mr. Fox's employment with Nephros and the employment agreement between Nephros and Mr. Fox made as of July 1, 2006 (the "Employment Agreement"), effective immediately. Nephros will pay Mr. Fox an aggregate of \$142,500 payable in equal installments for a period of six months after the Termination Date (as defined in the Separation Agreement). Nephros also paid to Mr. Fox any accrued but unpaid Base Salary (as defined in the Employment Agreement) for services rendered through the Termination Date. The final payment to Mr. Fox was made in the first quarter of 2008.

On May 7, 2008, the Company entered into a separation agreement and release with Mr. Lerner, Chief Financial Officer, pursuant to which, the employment agreement between the Company and Mr. Lerner, dated as of March 6, 2006, was terminated. Pursuant to the separation agreement, Mr. Lerner agreed to remain employed by the Company and to consult with the Company's officers, directors and agents and otherwise provide assistance in the Company's transition to a new chief financial officer until a separation date as late as May 15, 2008. The separation agreement provides that (i) Mr. Lerner will continue to receive his current base salary for a period of three months following the separation date, to be paid in accordance with the Company's normal payroll practices, and (ii) the Company will reimburse Mr. Lerner for up to \$5,000 of reasonable expenses for professional outplacement assistance. The separation agreement also contains mutual releases and other customary provisions.

On September 15, 2008, the Company entered into a separation agreement and release with Mr. Barta, Chairman, President and Chief Executive Officer, pursuant to which the employment agreement between the Company and Mr. Barta, dated as of July 1, 2007, was terminated. Pursuant to the separation agreement, Mr. Barta agreed to remain employed by the Company and to consult with the Company's officers, directors and agents and otherwise provide assistance in the Company's transition to a new chief executive officer until October 10, 2008 ("Separation Date"). The separation agreement provides, among other things, that:

- The Company will pay Mr. Barta his base salary and any accrued but unused vacation through the Separation Date;
- Within five days following the Separation Date, the Company will pay Mr. Barta an \$18,000 bonus in connection with certain operational milestones that had been met; and
  - Mr. Barta will continue to receive his base salary for a period of six months following the Separation Date.

The Separation Agreement also stated that, in accordance with their respective terms, the options granted to Mr. Barta on January 24, 2000, December 14, 2004 and November 8, 2007 - to the extent vested prior to the Separation Date - shall remain exercisable until three months after the Separation Date, and the options granted to Mr. Barta on January 30, 2003 shall remain exercisable until nine months after the Separation Date. A number of the options that were granted to Mr. Barta on November 8, 2007 remained unvested and were cancelled and forfeited by Mr. Barta as of the Separation Date. The separation agreement also contains mutual releases and other customary provisions. The balance due Mr. Barta as of December 31, 2008 was \$105,000.

#### Former Employee Claim

A former Company employee in France filed a claim in October 2008 stating that he is due 30,000 Euro or approximately \$42,000 in back wages. The individual left the Company four years ago and signed a Separation Agreement which stated the Company had no further liability to the individual. The Company's attorney has advised that the Separation Agreement is valid and should preclude any liability. A judgment dated October 15, 2009 was issued by a French court whereby the claimant was awarded 11,707 Euro. The judgment is subject to appeal. An accrual of \$18,000 has been recorded as of September 30, 2009 to cover this liability.

A former employee in the United States filed a claim in March 2009 against us and our CEO alleging breach of the individual's employment agreement and fraud. The individual was employed with us from April 2008 through January 8, 2009. The claim was settled as of September 30, 2009 for approximately \$11,000. An accrual of \$6,000 has been recorded as of September 30, 2009.

NEPHROS, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 12 — Commitments and Contingencies – (continued)

The Company evaluated this issue in light of FASB Statement No. 5, Accounting for Contingencies and determined that although the contingent loss is clearly able to be estimated, management's assessment is that the likelihood of the loss being incurred is remote due to the existence of an executed Separation Agreement which clearly states the Company has no further liability to the former employee. The prescribed treatment of this item as described, per FASB Statement No. 5, Accounting for Contingency, is to disclose the existence of the contingency and the amount of the potential loss but the loss is not to be recorded. No accrual has been made for this item in the 2008 financial statements.

Note 13 — Concentration of Credit Risk

Cash and cash equivalents are financial instruments which potentially subject the Company to concentrations of credit risk. The Company deposits its cash in financial institutions. At times, such deposits may be in excess of insured limits. To date, the Company has not experienced any impairment losses on its cash and cash equivalents.

Major Customers

For the year ended December 31, 2008 and 2007, one customer accounted for 78% and 91%, respectively, of the Company's sales. In addition, as of December 31, 2008 and 2007, that customer accounted for 66% and 98%, respectively, of the Company's accounts receivable.

Note 14 — Subsequent Event

NYSE Alternext US LLC (formerly, the American Stock Exchange or "AMEX") Issues

On January 8, 2009, the Company received a letter from the AMEX notifying the Company that it was rejecting its plan of compliance regarding the following listing standards to which the Company was in noncompliance of:

- Section 1003(a)(iii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$6,000,000 if such issuer has sustained net losses in its five most recent fiscal years;
- Section 1003(a)(ii), which states AMEX will normally consider suspending dealings in, or removing from the list, securities of an issuer which has stockholders' equity of less than \$4,000,000 if such issuer has sustained net losses in its three of its four most recent fiscal years; and
- Section 1003(f)(v), which states AMEX will normally consider suspending dealings in, or removing from the list, common stock that sells for a substantial period of time at a low price per share.

The AMEX further notified us that the AMEX intends to strike the common stock from the AMEX by filing a delisting application with the Securities and Exchange Commission pursuant to Rule 1009(d) of the AMEX Company Guide. Given the turmoil in the capital markets, we have decided not to seek an appeal of the AMEX's intention to delist our common stock.

On January 22, 2009, the Company was informed by the AMEX that the AMEX had suspended trading in the Company's common stock effective immediately. Immediately following the notification, the Company's common stock was no longer traded on the AMEX.

Effective February 4, 2009, the Company's common stock is now quoted on the Over the Counter Bulletin Board under the symbol "NEPH.OB".

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## NEPHROS, INC. AND SUBSIDIARY

## CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands, except share amounts)

	(Unaudited) September 30, 2009	(Audited) December 31, 2008
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 1,795	\$ 2,306
Short-term investments	-	7
Accounts receivable, less allowances of \$0 and \$4, respectively	525	404
Inventory	607	724
Prepaid expenses and other current assets	113	162
Total current assets	3,040	3,603
Property and equipment, net	218	412
Other assets	21	21
Total assets	\$ 3,279	\$ 4,036
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 616	\$ 986
Accrued expenses	251	411
Accrued severance expense	-	105
Total current liabilities	867	1,502
Stockholders' equity:		
Preferred stock, \$.001 par value; 5,000,000 shares authorized at September 30, 2009 and December 31, 2008; no shares issued and outstanding at September 30, 2009 and December 31, 2008	-	-
Common stock, \$.001 par value; 60,000,000 shares authorized at September 30, 2009 and December 31, 2008; 41,604,798 shares issued and outstanding at September 30, 2009 and 38,165,380 at December 31, 2008	42	38
Additional paid-in capital	91,774	90,375
Accumulated other comprehensive income	88	70
Accumulated deficit	(89,492)	(87,949)
Total stockholders' equity	2,412	2,534
Total liabilities and stockholders' equity	\$ 3,279	\$ 4,036

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

## NEPHROS, INC. AND SUBSIDIARY

## UNAUDITED CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(In thousands, except share and per share amounts)

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2009	2008	2009	2008
Product revenues	\$ 711	\$ 393	\$ 1,869	\$ 1,033
Cost of goods sold	463	254	1,251	654
Gross margin	248	139	618	379
Operating expenses:				
Research and development	62	191	212	2,072
Depreciation	53	84	190	255
Selling, general and administrative	676	1,242	2,093	3,830
Total operating expenses	791	1,517	2,495	6,157
Loss from operations	(543)	(1,378)	(1,877)	(5,778)
Interest income	2	27	8	185
Interest expense	-	-	(2)	-
Impairment of auction rate securities	-	-	-	(114)
Unrealized holding gain - auction rate securities	-	(114)	-	-
Gain on sale of investments	-	114	-	114
Other income	146	5	328	163
Net loss	\$ (395)	\$ (1,346)	\$ (1,543)	\$ (5,430)
Net loss per common share, basic and diluted	\$ (0.01)	\$ (0.04)	\$ (0.04)	\$ (0.14)
Weighted average common shares outstanding, basic and diluted	40,439,506	38,165,380	38,961,179	38,165,380

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

## NEPHROS, INC. AND SUBSIDIARY

## CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)

(In thousands)

	Nine Months Ended September 30,	
	2009	2008
<b>Operating activities:</b>		
Net loss	\$ (1,543)	\$ (5,430)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	190	255
Amortization of research & development assets	-	12
Loss on disposal of equipment	-	3
Impairment of auction rate securities	-	114
Gain on sale of investments	-	(114)
Stock-based compensation	68	97
(Increase) decrease in operating assets:		
Accounts receivable	(114)	93
Inventory	118	(1)
Prepaid expenses and other current assets	49	48
Increase (decrease) in operating liabilities:		
Accounts payable and accrued expenses	(638)	594
Net cash used in operating activities	(1,870)	(4,329)
<b>Investing activities:</b>		
Purchase of property and equipment	-	(63)
Proceeds from sale of short-term investments	-	4,100
Maturities of short-term investments	7	593
Net cash provided by investing activities	7	4,630
<b>Financing activities:</b>		
Proceeds from private placement	1,251	-
Exercise of stock options	84	-
Net cash provided by investing activities	1,335	-
Effect of exchange rates on cash	17	(5)
Net increase (decrease) in cash and cash equivalents	(511)	296
Cash and cash equivalents, beginning of period	\$ 2,306	\$ 3,449
Cash and cash equivalents, end of period	1,795	3,745
<b>Supplemental disclosure of cash flow information:</b>		
Cash paid for interest	2	-
Cash paid for taxes	6	8

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

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NEPHROS, INC.

NOTES TO UNAUDITED CONDENSED CONSOLIDATED INTERIM FINANCIAL STATEMENTS

1. Basis of Presentation and Going Concern

Interim Financial Information

The accompanying unaudited condensed consolidated interim financial statements of Nephros, Inc. and its wholly owned subsidiary, Nephros International, Limited (collectively, the “Company”), should be read in conjunction with the audited consolidated financial statements and notes thereto included in the Company’s 2008 Annual Report on Forms 10-K and 10K/A filed with the Securities and Exchange Commission (the “SEC”) on March 31, 2009 and April 30, 2009, respectively. The accompanying consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”) for interim financial information and in accordance with the instructions to Form 10-Q and Article 8 and Article 10 of Regulation S-X. Accordingly, since they are interim statements, the accompanying consolidated financial statements do not include all of the information and notes required by GAAP for a complete financial statement presentation. The condensed consolidated balance sheet as of December 31, 2008 was derived from the Company’s audited consolidated financial statements but does not include all disclosures required by GAAP. In the opinion of management, the interim consolidated financial statements reflect all adjustments consisting of normal, recurring adjustments that are necessary for a fair presentation of the financial position, results of operations and cash flows for the condensed consolidated interim periods presented. Interim results are not necessarily indicative of results for a full year. All significant intercompany transactions and balances have been eliminated in consolidation.

Adoption of Standards

We follow accounting standards set by the Financial Accounting Standards Board (“FASB”). The FASB sets generally accepted accounting principles (“GAAP”) that we follow to ensure we consistently report our financial condition, results of operations, and cash flows. References to GAAP issued by the FASB in these footnotes are to the FASB Accounting Standards Codification,<sup>TM</sup> sometimes referred to as the Codification or “ASC.” In June 2009, the FASB issued ASC Topic 105, Generally Accepted Accounting Principals, which became the single source of authoritative nongovernmental U.S. GAAP, superseding existing FASB, American Institute of Certified Public Accountants (“AICPA”), Emerging Issues Task Force (“EITF”), and related accounting literature. This pronouncement reorganizes the thousands of GAAP pronouncements into roughly 90 accounting topics and displays them using a consistent structure. Also included is relevant Securities and Exchange Commission guidance organized using the same topical structure in separate sections and has been adopted by the Company for the quarter ended September 30, 2009. This has an impact on the Company’s financial disclosures since all future references to authoritative accounting literature will be referenced in accordance with ASC Topic 105.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the Company’s consolidated financial statements and accompanying notes. Actual results could differ materially from those estimates.

Going Concern and Management’s Response

The accompanying financial statements have been prepared assuming that the Company will continue as a going concern. The Company’s recurring losses and difficulty in generating sufficient cash flow to meet its obligations and

sustain its operations raise substantial doubt about its ability to continue as a going concern. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

On July 24, 2009, the Company raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of its common stock and warrants to purchase an aggregate of 672,581 shares of its common stock, representing 50% of the shares of common stock purchased by each investor. The Company sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will expire on July 24, 2014.

Each investor agreed that it will not sell, pledge, sell short or otherwise dispose of any of the purchased shares or warrants during the period commencing on the date of purchase and ending on January 31, 2010.

The shares of common stock and the warrants issued to the investors were not registered under the Securities Act of 1933, as amended, in reliance upon the exemption from registration provided by Section 4(2) and Regulation D thereunder.

Based on the Company's current cash flow projections, it will need to raise additional funds through either the licensing or sale of its technologies or additional public or private offerings of its securities before the end of 2010. The Company continues to investigate strategic funding opportunities as they are identified. However, there is no guarantee that the Company will be able to obtain further financing. If it is unable to raise additional funds on a timely basis or at all, the Company would not be able to continue its operations. The Company has incurred significant losses in its operations in each quarter since inception. For the nine months ended September 30, 2009 and 2008, the Company has incurred net losses of approximately \$1,543,000 and \$5,430,000, respectively. In addition, the Company has not generated positive cash flow from operations for the nine months ended September 30, 2009 and 2008. To become profitable, the Company must increase revenue substantially and achieve and maintain positive gross and operating margins. If the Company is not able to increase revenue and gross and operating margins sufficiently to achieve profitability, the Company's results of operations and financial condition will be materially and adversely affected.

The Company's current operating plans primarily include the continued development and support of the Company's business in the European market, organizational changes necessary to begin the commercialization of the Company's water filtration business and the completion of current year milestones which are included in the Office of Naval Research appropriation. There can be no assurance that the Company's future cash flow will be sufficient to meet its obligations and commitments. If the Company is unable to generate sufficient cash flow from operations in the future to service its commitments, the Company will be required to adopt alternatives, such as seeking to raise debt or equity capital, curtailing its planned activities or ceasing its operations. There can be no assurance that any such actions could be effected on a timely basis or on satisfactory terms or at all, or that these actions would enable the Company to continue to satisfy its capital requirements.

## 2. Concentration of Credit Risk

For the nine months ended September 30, 2009 and 2008, the following customers accounted for the following percentages of the Company's sales, respectively.

Customer	2009	2008
A	45%	84%
B	42%	10%

As of September 30, 2009 and December 31, 2008, the following customers accounted for the following percentages of the Company's accounts receivable, respectively.

Customer	2009	2008
A	47%	66%
B	32%	23%

## 3. Revenue Recognition

Revenue is recognized in accordance with ASC Topic 605. Four basic criteria must be met before revenue can be recognized: (i) persuasive evidence that an arrangement exists; (ii) delivery has occurred or services have been rendered; (iii) the fee is fixed or determinable; and (iv) collectability is reasonably assured.

The Company recognizes revenue related to product sales when delivery is confirmed by its external logistics provider and the other criteria of ASC Topic 605 are met. Product revenue is recorded net of returns and allowances. All shipments are currently received directly by the Company's customers.

4. Stock-Based Compensation

The Company accounts for stock-based compensation in accordance with ASC 718 by recognizing the fair value of stock-based compensation in the statement of operations. The fair value of the Company's stock option awards are estimated using a Black-Scholes option valuation model. This model requires the input of highly subjective assumptions and elections including expected stock price volatility and the estimated life of each award. In addition, the calculation of compensation costs requires that the Company estimate the number of awards that will be forfeited during the vesting period. The fair value of stock-based awards is amortized over the vesting period of the award. For stock-based awards that vest based on performance conditions (e.g. achievement of certain milestones), expense is recognized when it is probable that the condition will be met.

For the three months ended September 30, 2009 and 2008, stock-based compensation expense was approximately \$33,000 for both periods. For the nine months ended September 30, 2009 and 2008, stock-based compensation expense was approximately \$68,000 and \$97,000, respectively.



There was no tax benefit related to expense recognized in the three and nine months ended September 30, 2009 and 2008, as the Company is in a net operating loss position. As of September 30, 2009, there was approximately \$256,000 of total unrecognized compensation cost related to unvested share-based compensation awards granted under the equity compensation plans. Such amount does not include the effect of future grants of equity compensation, if any. Of this amount, approximately \$256,000 will be amortized over the weighted-average remaining requisite service period of 2.7 years. Of the total \$256,000, the Company expects to recognize approximately 10% in the remaining interim periods of 2009, approximately 37% in 2010, approximately 35% in 2011 and approximately 18% in 2012.

5. Comprehensive Income

The Company complies with the provisions of ASC 220-10, which requires companies to report all changes in equity during a period, except those resulting from investment by owners and distributions to owners, for the period in which they are recognized. Comprehensive income is the total of net income and all other non-owner changes in equity (or other comprehensive income (loss)) such as unrealized gains or losses on securities classified as available-for-sale and foreign currency translation adjustments. As of September 30, 2009 and December 31, 2008, accumulated other comprehensive income was approximately \$88,000 and \$70,000, respectively.

6. Loss per Common Share

In accordance with ASC 260-10, net loss per common share amounts (“basic EPS”) are computed by dividing net loss by the weighted-average number of common shares outstanding and excluding any potential dilution. Net loss per common share amounts assuming dilution (“diluted EPS”) are generally computed by reflecting potential dilution from conversion of convertible securities and the exercise of stock options and warrants. However, because their effect is antidilutive, the Company has excluded stock options and warrants aggregating 9,698,539 and 14,339,324 from the computation of diluted EPS for the three and nine month periods ended September 30, 2009 and 2008, respectively.

7. Recent Accounting Pronouncements

Fair Value Measurements – In September 2006, the FASB issued guidance regarding fair value measurements. This guidance defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. It applies to other accounting pronouncements where the FASB requires or permits fair value measurements but does not require any new fair value measurements. In February 2008, FASB issued a pronouncement, which delayed the effective date of its prior guidance regarding fair value measurements, specifically for certain non-financial assets and non-financial liabilities to fiscal years beginning after November 15, 2008, and interim periods within those fiscal years. The Company adopted the guidance for financial assets and liabilities on January 1, 2008. It did not have any impact on the Company’s results of operations or financial position and did not result in any additional disclosures and the Company adopted the guidance for non-financial assets and non-financial liabilities on January 1, 2009, resulting in no impact to the Company’s consolidated financial position, results of operations or cash flows.

In April 2009, the FASB issued new accounting guidance on determining fair value when the volume and level of activity for the asset or liability have significantly decreased and identifying transactions that are not orderly. The guidance affirms that the objective of fair value when the market for an asset is not active is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date under current market conditions. It provides guidance for estimating fair value when the volume and level of market activity for an asset or liability have significantly decreased and determining whether a transaction was orderly. It applies to all fair value measurements when appropriate. The adoption of this guidance did not have a significant impact on the Company’s consolidated financial position, results of operations or cash flows, or related

footnotes.

In April 2009, the FASB issued new accounting guidance on interim disclosures about fair value of financial instruments, which is effective for the Company for the quarterly period beginning April 1, 2009. The guidance requires an entity to provide the annual disclosures required by a prior pronouncement regarding disclosures about fair value of financial instruments, in its interim financial statements. The application of the guidance did not have a significant impact on the Company's consolidated financial position, results of operations or cash flows, or related footnotes.

In August 2009, the FASB issued an update to provide further guidance on how to measure the fair value of a liability, an area where practitioners have been seeking further guidance. It primarily does three things: 1) sets forth the types of valuation techniques to be used to value a liability when a quoted price in an active market for the identical liability is not available, 2) clarifies that when estimating the fair value of a liability, a reporting entity is not required to include a separate input or adjustment to other inputs relating to the existence of a restriction that prevents the transfer of the liability and 3) clarifies that both a quoted price in an active market for the identical liability at the measurement date and the quoted price for the identical liability when traded as an asset in an active market when no adjustments to the quoted price of the asset are required are Level 1 fair value measurements. This standard is effective beginning fourth quarter of 2009 for the Company. The adoption of this standard update is not expected to impact the Company's consolidated financial position, results of operations or cash flows.

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**Business Combinations** – In December 2007, the FASB issued new accounting guidance on business combinations. The pronouncement establishes principles and requirements for how the acquirer in a business combination recognizes and measures in its financial statements the fair value of identifiable assets acquired, the liabilities assumed and any noncontrolling interest in the acquiree at the acquisition date. The pronouncement determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. It is effective for fiscal years beginning after December 15, 2008. The Company adopted the pronouncement on January 1, 2009 resulting in no impact to the Company's consolidated financial position, results of operations or cash flows.

**Subsequent Events** – On May 28, 2009, the FASB issued guidance regarding subsequent events, which the Company adopted on a prospective basis beginning April 1, 2009. The guidance is intended to establish general standards of accounting and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. It requires the disclosure of the date through which an entity has evaluated subsequent events and the basis for selecting that date. The application of the pronouncement did not have an impact on the Company's consolidated financial position, results of operations or cash flows.

**FASB Accounting Standards Codification** – On June 29, 2009, the FASB issued an accounting pronouncement establishing the FASB Accounting Standards Codification as the source of authoritative accounting principles recognized by the FASB to be applied by nongovernmental entities. This pronouncement was effective for financial statements issued for interim and annual periods ending after September 15, 2009, for most entities. On the effective date, all non-SEC accounting and reporting standards will be superseded. The Company adopted this new accounting pronouncement for the quarterly period ended September 30, 2009, as required, and adoption did not have a material impact on the Company's consolidated financial position, results of operations or cash flows.

**Recognition and Presentation of Other-Than-Temporary Impairments** – In April 2009, the FASB issued an accounting pronouncement, which is effective for the Company for interim and annual reporting periods ending after June 15, 2009, that amends existing guidance for determining whether an other than temporary impairment of debt securities has occurred. Among other changes, the FASB replaced the existing requirement that an entity's management assert it has both the intent and ability to hold an impaired security until recovery with a requirement that management assert (a) it does not have the intent to sell the security, and (b) it is more likely than not it will not have to sell the security before recovery of its cost basis. The Company has no debt securities as of June 30, 2009 therefore there is no impact on the Company's September 30, 2009 consolidated financial position, results of operations or cash flows.

## 8. Fair Value of Financial Instruments

The carrying amounts of cash and cash equivalents, short-term investments, accounts receivable, accounts payable and accrued expenses approximate fair value due to the short-term maturity of these instruments.

The following table details the fair value measurements within the fair value hierarchy of the Company's financial assets at December 31, 2008:

	Total Fair Value at December 31, 2008	Fair Value Measurements at Reporting Date Using		
		Level 1	Level 2	Level 3
Certificate of deposit	\$ 7,000	\$ 7,000	\$ —	\$ —
<b>Total</b>	<b>\$ 7,000</b>	<b>\$ 7,000</b>	<b>\$ —</b>	<b>\$ —</b>

The Company had no financial assets held at fair value at September 30, 2009.

9. Inventory

Inventory is stated at the lower of cost or market using the first-in first-out method. The Company's inventory as of September 30, 2009 and December 31, 2008 was approximately as follows:

	Unaudited September 30, 2009	Audited December 31, 2008
Raw Materials	\$ 109,000	\$ 382,000
Finished Goods	498,000	342,000
Total Inventory	\$ 607,000	\$ 724,000

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## 10. Equity Transactions

## Warrants

Class D Warrants — As disclosed in Note 8 to the December 31, 2008 consolidated financial statements, the Company issued Class D warrants to purchase an aggregate of 9,112,566 shares of the Company's common stock to the investors upon conversion of the purchased notes. The Company recorded the issuance of the Class D warrants at their approximate fair market value of \$3,763,000. The value of the Class D warrants was computed using the Black-Scholes option pricing model.

Placement Agent Warrants — As disclosed in Note 8 to the December 31, 2008 consolidated financial statements, the Company issued placement agent warrants to purchase an aggregate of 1,756,374 shares of the Company's common stock to the Company's placement agents in connection with their roles in the Company's fall 2007 financing ("the 2007 Financing"). The Company recorded the issuance of the placement agent warrants at their approximate fair market value of \$1,047,000. The value of the placement agent warrants was computed using the Black-Scholes option pricing model.

The following table summarizes certain terms of all of the Company's outstanding warrants at December 31, 2008.

Total Outstanding Warrants as of December 31, 2008

Title of Warrant	Date Issued	Expiry Date	Exercise Price	Total Common Shares Issuable
IPO Underwriter Warrants	3/24/2005	9/20/2009	\$ 7.50	200,000
Lancer Warrants	1/18/2006	1/18/2009	\$ 1.50	21,308
Class D Warrants	11/14/2007	11/14/2012	\$ 0.706	9,112,566
Placement Agent Warrants	11/14/2007	11/14/2012	\$ 0.90	1,756,374
Total all Outstanding Warrants			\$ 1.02(1)	11,090,248

(1) Weighted average.

The IPO Underwriter Warrants expired on September 20, 2009.

The Lancer Warrants expired on January 18, 2009.

## Issuance of Common Stock due to Class D Warrants' Cashless Exercise Provision

The Series D warrants have a cashless exercise provision which states, "If, and only if, at the time of exercise pursuant to this Section 1 there is no effective registration statement registering, or no current prospectus available for, the sale of the Warrant Shares to the Holder or the resale of the Warrant Shares by the Holder and the VWAP (as defined below) is greater than the Per Share Exercise Price at the time of exercise, then this Warrant may also be exercised at such time and with respect to such exercise by means of a "cashless exercise" in which the Holder shall be entitled to receive a certificate for the number of Warrant Shares equal to the quotient obtained by dividing (i) the result of (x) the difference of (A) minus (B), multiplied by (y) (C), by (ii) (A), where:

(A) = the VWAP (as defined below) on the Trading Day (as defined below) immediately preceding the date of such election;

(B) = the Per Share Exercise Price of this Warrant, as adjusted; and

(C) = the number of Warrant Shares issuable upon exercise of this Warrant in accordance with the terms of this Warrant by means of a cash exercise rather than a cashless exercise.

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“VWAP” means, for any date, the price determined by the first of the following clauses that applies: (a) if the Common Stock is then listed or quoted for trading on the New York Stock Exchange, American Stock Exchange, NASDAQ Capital Market, NASDAQ Global Market, NASDAQ Global Select Market or the OTC Bulletin Board, or any successor to any of the foregoing (a “ Trading Market ”), the daily volume weighted average price of the Common Stock on the Trading Market on which the Common Stock is then listed or quoted for trading as reported by Bloomberg L.P. for such date if such date is a date on which the Trading Market on which the Common Stock is then listed or quoted for trading (a “ Trading Day ”) or the nearest preceding Trading Date (based on a Trading Day from 9:30 a.m. (New York City time) to 4:02 p.m. (New York City time)); (b) if the Common Stock is not then listed or quoted for trading on a Trading Market and if prices for the Common Stock are then reported in the “Pink Sheets” published by Pink Sheets, LLC (or a similar organization or agency succeeding to its functions of reporting prices), the most recent bid price per share of the Common Stock so reported; or (c) in all other cases, the fair market value of a share of Common Stock as determined by an independent appraiser selected in good faith by the Holder and reasonably acceptable to the Company.”

The Company did not have an effective registration statement or a current prospectus available for the sale of the warrant shares to the holder or the resale of the warrant shares by the holder and the VWAP (as defined above) was greater than the per share exercise price during the months of June through September 2009.

A Class D warrant holder elected to exercise 1,723,001 of the 9,112,566 Class D Warrants outstanding as of June 2009 pursuant to the cashless exercise provision of the warrant. As a result, 1,091,222 shares of common stock were issued to this Class D warrant holder in August 2009. The number of shares outstanding in the September 30, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the three and nine months ended September 30, 2009 include these shares.

#### Issuance of Common Stock due to Placement Agent Warrants’ Cashless Exercise Provision

National Securities Corporation (“NSC”) and Dinosaur Securities, LLC (“Dinosaur” and together with NSC, the “Placement Agents”) acted as co-placement agents in connection with the 2007 Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The Placement Agents received (i) an aggregate cash fee equal to 8% of the face amount of the notes purchased in the 2007 Financing (“the Purchased Notes”) and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants (“Placement Agent Warrant”) with a term of five years from the date of issuance to purchase 10% of the aggregate number of shares of the Company’s common stock issued upon conversion of the Purchased Notes with an exercise price per share of the Company’s common stock equal to \$0.706. The Company issued Placement Agents Warrants to purchase an aggregate of 1,756,374 shares of the Company’s common stock to the Placement Agent in November 2007 in connection with their roles in the 2007 Financing.

The Placement Agent Warrants have a cashless exercise provision identical to that in the Series D Warrants.

The Company did not have an effective registration statement or a current prospectus available for the sale of the warrant shares to the holders or the resale of the warrant shares by the holders and the VWAP (as defined above) was greater than the per share exercise price during the months of June through September 2009. Several Placement Agents elected to exercise the cashless exercise provision of their warrants.

Placement Agents elected to exercise 1,348,690 of the 1,756,374 Placement Agent Warrants outstanding in June 2009. All elected the Cashless Exercise provision of their warrants. As a result, 594,492 shares of common stock were issued to the Placement Agents in June 2009. The number of shares outstanding in the June 30, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the three and six months ended June 30, 2009 include these shares.

As of June 30, 2009 there were 407,684 Placement Agent Warrants outstanding.

Placement Agents elected to exercise 278,003 of the 407,684 Placement Agent Warrants outstanding in June 2009. All elected the cashless exercise provision of their warrants. As a result, 143,762 shares of common stock were issued to the Placement Agents in the three months ended September 30, 2009. The number of shares outstanding in the September 30, 2009 balance sheet and the number of shares outstanding used in the earnings per share calculation for the three and six months ended September 30, 2009 include these shares.

As of September 30, 2009 there were 129,681 Placement Agent Warrants outstanding.

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## July 2009 Private Placement

On July 24, 2009, the Company raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of its common stock and warrants to purchase an aggregate of 672,581 shares of its common stock, representing 50% of the shares of common stock purchased by each investor. The Company sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014.

## Total Outstanding Warrants as of September 30, 2009

Title of Warrant	Date Issued	Expiry Date	Exercise Price	Total Common Shares Issuable
Class D Warrants	11/14/2007	11/14/2012	\$ 0.90	7,389,565
Placement Agent Warrants	11/14/2007	11/14/2012	\$ 0.706	129,681
July 2009 Warrants	7/24/2009	7/24/2014	\$ 1.12	672,581
Total all Outstanding Warrants			\$ .92(1)	8,191,827

(1) Weighted average.

## 11. Contingencies

A former employee in the United States filed a claim in March 2009 against the Company and our CEO alleging breach of the individual's employment agreement and fraud. The individual was employed with us from April 2008 through January 8, 2009. The claim was settled as of September 30, 2009 for approximately \$11,000. An accrual of \$6,000 has been recorded as of September 30, 2009.

A third party has brought a claim against the Company alleging they incurred damages as a result of its cancellation of a transaction in 2008 involving the sale of Auction Rate Securities. The claim has been referred to a Financial Industry Regulatory Authority (FINRA) binding arbitration panel and is scheduled to be heard in March 2010. There is no specific amount of damages identified in the claim. The Company denies that a transaction agreement had been reached and denies any liability involving this claim. No contingent loss accrual has been recorded by the Company as of September 30, 2009.

## 12. Subsequent Events

A former employee in France filed a claim in October 2008 stating that the individual is due 30,000 Euro or approximately \$42,000 in back wages. The individual left our employment four years ago and signed a Separation Agreement which stated we had no further liability to the individual. Our attorney has advised us that the Separation Agreement is valid and should preclude us from having any liability. A judgment dated October 15, 2009 was issued by a French court whereby the claimant was awarded 11,707 Euro. The judgment is final. An accrual of \$18,000 has been recorded as of September 30, 2009 to cover this liability.

On October 26, 2009, the Company amended the certificate of incorporation to increase the authorized capital stock from 65,000,000 shares to 95,000,000 shares and the authorized common stock from 60,000,000 shares to 90,000,000 shares. This increase was approved by the Company's stockholders on October 22, 2009. The amount of authorized preferred stock, which is 5,000,000 shares, was not increased.

The Company has evaluated subsequent events through November 12, 2009, the date of issuance of these financial statements.



## PART II

## INFORMATION NOT REQUIRED IN PROSPECTUS

## Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses payable by the registrant in connection with the sale of the securities being registered. All amounts are estimates.

SEC Filing Fee	\$ 837
Printing expenses	\$ 3,000
Legal Fees and Expenses	\$ 45,000
Accounting Fees and Expenses	\$ 5,000
Miscellaneous	\$ 1,163
Total	\$ 55,000

## Item 14. Indemnification of Directors and Officers.

Section 145 of the Delaware General Corporation Law, or DGCL, permits a corporation, under specified circumstances, to indemnify its directors, officers, employees or agents against expenses (including attorneys' fees), judgments, fines and amounts paid in settlements actually and reasonably incurred by them in connection with any action, suit or proceeding brought by third parties by reason of the fact that they were or are directors, officers, employees or agents of the corporation, if such directors, officers, employees or agents acted in good faith and in a manner they reasonably believed to be in or not opposed to the best interests of the corporation and, with respect to any criminal action or proceeding, had no reason to believe their conduct was unlawful. In a derivative action, that is one by or in the right of the corporation, indemnification may be made only for expenses actually and reasonably incurred by directors, officers, employees or agents in connection with the defense or settlement of an action or suit, and only with respect to a matter as to which they will have acted in good faith and in a manner they reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification will be made if such person will have been adjudged liable to the corporation, unless and only to the extent that the court in which the action or suit was brought will determine upon application that the defendant directors, officers, employees or agents are fairly and reasonably entitled to indemnity for such expenses despite such adjudication of liability.

Our Fourth Amended and Restated Certificate of Incorporation, as amended, provides for indemnification of our directors and officers of the registrant to the fullest extent permitted by the DGCL. Our Second Amended and Restated By-Laws provides that we will generally indemnify our directors, officers, employees or agents to the fullest extent permitted by the law against all losses, claims, damages or similar events. We have obtained liability insurance for each director and officer for certain losses arising from claims or charges made against them while acting in their capacities as directors or officers of our company.

## Item 15. Recent Sales of Unregistered Securities.

On July 24, 2009, we raised gross proceeds of \$1,251,000 through the private placement to eight accredited investors of an aggregate of 1,345,161 shares of our common stock and warrants to purchase an aggregate of 672,581 shares of our common stock, representing 50% of the shares of common stock purchased by each investor. We sold the shares to investors at a price per share equal to \$0.93. The warrants have an exercise price of \$1.12, are exercisable immediately and will terminate on July 24, 2014.

In September 2007, we entered into a Subscription Agreement with Lambda Investors LLC, or Lambda, GPC 76, LLC, Lewis P. Schneider and Enso Global Equities Partnership LP (collectively, the "New Investors") pursuant to

which the New Investors purchased an aggregate of approximately \$12.7 million principal amount of Series A 10% Secured Convertible Notes due 2008 (the “Purchased Notes”) of Nephros, for the face value thereof (the “Offering”).

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Concurrently with the Offering, Nephros entered into an Exchange Agreement with each of Southpaw Credit Opportunity Master Fund LP, 3V Capital Master Fund Ltd, Distressed/High Yield Trading Opportunities, Ltd., Kudu Partners, L.P. and LJHS Company (collectively, the “Exchange Investors” and together with the New Investors, the “Investors”), pursuant to which the Exchange Investors agreed to exchange the principal and accrued but unpaid interest in an aggregate amount of approximately \$5.6 million under the 6% Secured Convertible Notes due 2012 (“Old Notes”) of Nephros, for new Series B 10% Secured Convertible Notes due 2008 in an aggregate principal amount of \$5.3 million (the “Exchange Notes”).

All principal and accrued but unpaid interest under the New Notes automatically converted into (i) an aggregate of 18,255,128 shares of our common stock, par value \$0.001 per share at a conversion price per share equal to \$0.706 and (ii) in the case of Purchased Notes, but not Exchange Notes, Class D Warrants to purchase an aggregate of 9,112,566 shares of common stock with an exercise price per share equal to \$0.706.

National Securities Corporation, or NSC, and Dinosaur Securities, LLC, or Dinosaur, acted as co-placement agents in connection with the Financing pursuant to an Engagement Letter, dated June 6, 2007 and a Placement Agent Agreement dated September 18, 2007. The co-placement agents received (i) an aggregate cash fee equal to 8% of the face amount of the Purchased Notes, allocated and paid 6.25% to NSC and 1.75% to Dinosaur, and (ii) warrants with a term of five years from the date of issuance to purchase an aggregate of 1,756,374 shares of common stock at an exercise price of \$0.706 per share.

All of the securities described above were issued under the exemption from registration provided by Section 4(2) of the Securities Act.

#### Item 16. Exhibits

(a) Exhibits. The following exhibits are filed as part of this registration statement:

Exhibit No.	Description
3.1	Fourth Amended and Restated Certificate of Incorporation of the Registrant.(5)
3.2	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant. (13)
3.3	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant. (13)
3.4	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation of the Registrant as filed with the Delaware Secretary of State on November 13, 2007. (14)
3.5*	Certificate of Amendment to the Fourth amended and Restated Certificate of Incorporation of the Registrant as filed with the Delaware Secretary of state on October 26, 2009.
3.6	Second Amended and Restated By-Laws of the Registrant.(16)
4.1	Specimen of Common Stock Certificate of the Registrant.(1)
4.2	Form of Underwriter’s Warrant.(1)
4.3	Warrant for the purchase of shares of common stock dated January 18, 2006, issued to Marty Steinberg, Esq., as Court-appointed Receiver for Lancer Offshore, Inc.(17)
4.4	Form of Series A 10% Secured Convertible Note due 2008 convertible into Common Stock and Warrants. (15)
4.5	Form of Series B 10% Secured Convertible Note due 2008 convertible into Common Stock.(15)
4.6	Form of Class D Warrant.(15)

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- 4.7 Form of Placement Agent Warrant.(15)
- 4.8 Form of Investor Warrant issued on July 24, 2009. (20)
- 5.1\* Opinion of Wyrick Robbins Yates & Ponton LLP as to the legality of the securities being registered.
- 10.1 Amended and Restated 2000 Nephros Equity Incentive Plan.(1)(2)
- 10.2 2004 Nephros Stock Incentive Plan.(1)(2)
- 10.3 Amendment No. 1 to 2004 Nephros Stock Incentive Plan.(2)(5)
- 10.4 Amendment No. 2 to the Nephros, Inc. 2004 Stock Incentive Plan.(14)
- 10.5 Form of Subscription Agreement dated as of June 1997 between the Registrant and each Purchaser of Series A Convertible Preferred Stock. (1)
- 10.6 Amendment and Restatement to Registration Rights Agreement, dated as of May 17, 2000 and amended and restated as of June 26, 2003, between the Registrant and the holders of a majority of Registrable Shares (as defined therein). (1)

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- 10.7 Employment Agreement dated as of November 21, 2002 between Norman J. Barta and the Registrant. (1)(2)
- 10.8 Amendment to Employment Agreement dated as of March 17, 2003 between Norman J. Barta and the Registrant. (1)(2)
- 10.9 Amendment to Employment Agreement dated as of May 31, 2004 between Norman J. Barta and the Registrant. (1)(2)
- 10.10 Employment Agreement effective as of July 1, 2007 between Nephros, Inc. and Norman J. Barta. (14)
- 10.11 Form of Employee Patent and Confidential Information Agreement.(1)
- 10.12 Form of Employee Confidentiality Agreement.(1)
- 10.13 Settlement Agreement and Mutual Release dated June 19, 2002 between Plexus Services Corp. and the Registrant.(1)
- 10.14 Settlement Agreement dated as of January 31, 2003 between Lancer Offshore, Inc. and the Registrant. (1)
- 10.15 Settlement Agreement dated as of February 13, 2003 between Hermitage Capital Corporation and the Registrant. (1)
- 10.16 Supply Agreement between Nephros, Inc. and Membrana GmbH, dated as of December 17, 2003. (1)(3)
- 10.17 Amended Supply Agreement between Nephros, Inc. and Membrana GmbH dated as of June 16, 2005. (3)(7)
- 10.18 Manufacturing and Supply Agreement between Nephros, Inc. and Medica s.r.l., dated as of May 12, 2003. (1)(3)
- 10.19 Manufacturing and Supply Agreement between Nephros, Inc. and Medica s.r.l., dated as of March 22, 2005 supercedes prior Agreement dated May 12, 2003. (3)(8)
- 10.20 HDF-Cartridge License Agreement dated as of March 2, 2005 between Nephros, Inc. and Asahi Kasei Medical Co., Ltd. (4)
- 10.21 Subscription Agreement dated as of March 2, 2005 between Nephros, Inc. and Asahi Kasei Medical Co., Ltd. (4)
- 10.22 Non-employee Director Compensation Summary.(2)(6)
- 10.23 Named Executive Officer Summary of Changes to Compensation.(2)(6)
- 10.24 Stipulation of Settlement Agreement between Lancer Offshore, Inc. and Nephros, Inc. approved on December 19, 2005. (8)
- 10.25 Consulting Agreement, dated as of January 11, 2006, between the Company and Bruce Prashker. (2)(8)
- 10.26 Summary of Changes to Chief Executive Officer's Compensation.(2)(8)
- 10.27 Offer of Employment Agreement, dated as of February 24 2006, between the Company and Mark W. Lerner. (2)(8)
- 10.28 Form of 6% Secured Convertible Note due 2012 for June 1, 2006 Investors.(9)
- 10.29 Form of Common Stock Purchase Warrant.(9)
- 10.30 Form of Subscription Agreement, dated as of June 1, 2006.(9)
- 10.31 Form of Registration Rights Agreement, dated as of June 1, 2006.(9)
- 10.32 Form of 6% Secured Convertible Note due 2012 for June 30, 2006 Investors.(10)
- 10.33 Form of Subscription Agreement, dated as of June 30, 2006.(10)
- 10.34 Employment Agreement between Nephros, Inc. and William J. Fox, entered into on August 2, 2006. (2)(11)
- 10.35 Addendum to the Commercial Contract between Nephros, Inc. and Bellco S.p.A, effective as of January 1, 2007. (3)(12)
- 10.36 Form of Subscription Agreement between Nephros and Subscriber.(15)
- 10.37

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- Exchange Agreement, dated as of September 19, 2007, between Nephros and the Holders. (15)
- 10.38 Registration Rights Agreement, dated as of September 19, 2007, among Nephros and the Investors. (15)
- 10.39 Investor Rights Agreement, dated as of September 19, 2007, among Nephros and the Covered Holders as defined therein. (15)
- 10.40 Placement Agent Agreement, dated as of September 18, 2007, among Nephros, NSC and Dinosaur. (15)

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- 10.41 License Agreement, dated October 1, 2007, between the Trustees of Columbia University in the City of New York, and Nephros. (17)
- 10.42 Employment Agreement, dated as of April 1, 2008, between Nephros, Inc. and Gerald Kochanski. (2) (18)
- 10.43 Separation Agreement, dated as of April 28, 2008, between Nephros, Inc. and Mark W. Lerner. (2) (18)
- 10.44 Separation Agreement and Release, dated as of September 15, 2008, between Nephros, Inc. and Norman J. Barta. (2) (19)
- 10.45 Employment Agreement, dated as of September 15, 2008, between Nephros, Inc. and Ernest A. Elgin III. (2) (19)
- 10.46 Distribution Agreement between Nephros, Inc. and OLS, dated as of November 26, 2008.(20)
- 10.47 Lease Agreement between Nephros International LTD and Coldwell Banker Penrose & O'Sullivan dated November 30, 2008.(20)
- 10.48 Distribution Agreement between Nephros, Inc. and Aqua Services, Inc., dated as of December 3, 2008.(20)
- 10.49 Sales Management Agreement between Nephros, Inc. and Steve Adler, dated as of December 16, 2008.(20)
- 10.50 Amendment No. 3 to the Nephros, Inc. 2004 Stock Incentive Plan.(20)
- 10.51 Form of Subscription Agreement between Nephros, Inc. and various investors, dated July 24, 2009. (20)
- 21.1 Subsidiaries of Registrant.(12)
- 23.1 Consent of Rothstein Kass, Certified Public Accountants.
- 23.2\* Consent of Wyrick Robbins Yates & Ponton LLP (contained in Exhibit 5.1).

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\*Previously filed.

- (1) Incorporated by reference to Nephros, Inc.'s Registration Statement on Form S-1, File No. 333-116162.
- (2) Management contract or compensatory plan arrangement.
- (3) Portions omitted pursuant to a request for confidential treatment.
- (4) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K Filed with the Securities and Exchange Commission on March 3, 2005.
- (5) Incorporated by reference to Nephros, Inc.'s Registration Statement on Form S-8 (No. 333-127264), as filed with the Securities and Exchange Commission on August 5, 2005.
- (6) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB, filed with the Securities and Exchange Commission on May 16, 2005.
- (7) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB, filed with the Securities and Exchange Commission on August 15, 2005.
- (8) Incorporated by reference to Nephros, Inc.'s Annual Report on Form 10-KSB, filed with the Securities and Exchange Commission on April 20, 2006.
- (9) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on June 2, 2006.
- (10) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on July 7, 2006.
- (11) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on August 4, 2006.
- (12)

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Incorporated by reference to Nephros, Inc.'s Annual Report on Form 10-KSB for the year ended December 31, 2006, filed with the Securities and Exchange Commission on April 10, 2007.

- (13) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB for the quarter ended June 30, 2007, filed with the Securities and Exchange Commission on August 13, 2007.
- (14) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-QSB for the quarter ended September 30, 2007, filed with the Securities and Exchange Commission on November 13, 2007.

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- (15) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on September 25, 2007.
- (16) Incorporated by reference to Nephros, Inc.'s Current Report on Form 8-K filed with the Securities and Exchange Commission on December 3, 2007.
- (17) Incorporated by reference to Nephros, Inc.'s Annual Report on Form 10-KSB for the year ended December 31, 2007, filed with the Securities and Exchange Commission on March 31, 2008.
- (18) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-Q for the quarter ended March 31, 2008, filed with the Securities and Exchange Commission on May 15, 2008.
- (19) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-Q for the quarter ended September 30, 2008, filed with the Securities and Exchange Commission on November 14, 2008.
- (20) Incorporated by reference to Nephros, Inc.'s Quarterly Report on Form 10-Q for the quarter ended June 30, 2009, filed with the Securities and Exchange Commission on August 14, 2009.

Item 17. Undertakings.

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

(b) The undersigned Registrant hereby undertakes that:

(1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective; and

(2) For purposes of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus 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.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of River Edge, State of New Jersey, on January 21, 2010.

NEPHROS, INC.

Date: January 21, 2010

By: /s/ Ernest A. Elgin III  
Name: Ernest A. Elgin III  
Title: President, Chief Executive Officer and Director

SIGNATURES

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/ Ernest A. Elgin III Ernest A. Elgin III	President, Chief Executive Officer (Principal Executive Officer) and Director	January 21, 2010
/s/ Gerald J. Kochanski Gerald J. Kochanski	Chief Financial Officer (Principal Financial and Accounting Officer)	January 21, 2010
/s/ Arthur H. Amron* Arthur H. Amron	Director	January 21, 2010
/s/ Lawrence J. Centella* Lawrence J. Centella	Director	January 21, 2010
/s/ Paul A. Mieyal* Paul A. Mieyal	Director	January 21, 2010
/s/ James S. Scibetta* James S. Scibetta	Director	January 21, 2010

\*By: Gerald J.  
Kochanski  
Gerald J.  
Kochanski  
Attorney-in-Fact

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