

POSITRON CORP
Form 10KSB
March 31, 2005

FY 2004

POSITRON CORPORATION

FORM 10-KSB

U.S. SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-KSB

ANNUAL REPORT
UNDER SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

FOR THE FISCAL YEAR ENDED DECEMBER 31, 2004

Commissions file number: 0-24092

Positron Corporation
A Texas Corporation
1304 Langham Creek Drive, Suite 300, Houston, Texas 77084
(281) 492-7100

IRS Employer Identification Number: 76-0083622

Securities registered under Section 12(b) of the Exchange Act: NONE

Securities registered under Section 12(g) of the Exchange Act: COMMON STOCK, \$.01 PAR VALUE

Check whether the issuer (1) filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the past 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes x

No o

Check if there is no disclosure of delinquent filers in response to Item 405 of Regulation S-B contained in this form, and no disclosure will be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-KSB or any amendment to this Form 10-KSB.

Issuer's revenues for fiscal year ended December 31, 2004: \$2,780,000.

Aggregate market value of common stock held by non-affiliates of the Registrant as of February 28, 2005: \$5,318,580.

As of February 28, 2005, there were 53,185,803 shares of the Registrant's common stock, \$.01 par value outstanding.

Documents incorporated by reference: None

Transitional Small Business Disclosure Format (check one): Yes o No x

PART I**Item 1. Description of Business****General**

Positron Corporation (the “Company”) was incorporated in the State of Texas on December 20, 1983, and commenced commercial operations in 1986. The Company designs, manufactures, markets and services advanced medical imaging devices utilizing positron emission tomography (“PET”) technology under the trade-name POSICAM™ systems. Unlike other currently available imaging technologies, PET technology permits the measurement of the biological processes of organs and tissues as well as producing anatomical and structural images. POSICAM™ systems, which incorporate patented and proprietary technology, enable physicians to diagnose and treat patients in the areas of cardiology, neurology and oncology. The Food and Drug Administration (“FDA”) approved the initial POSICAM™ system for marketing in 1985, and as of December 31, 2004, the Company has sold twenty eight (28) POSICAM™ systems, of which twelve (12) are in leading medical facilities in the United States and seven (7) are installed in international medical institutions. The Company has reacquired one system, which is being held in inventory for resale. The Company presently markets its POSICAM™ systems at list prices of up to \$1.7 million depending upon the configuration and equipment options of the particular system.

The following table provides summary information regarding the Company’s installed base of POSICAM™ systems, which were operational as of December 31, 2004:

| <u>Site</u> | <u>Location</u> | <u>Clinical Application</u> | <u>Install Date</u> |
|---|-------------------|-------------------------------|---------------------|
| Crawford Long Hospital | Atlanta, GA | Cardiology/Oncology | 1992 |
| Hermann Hospital | Houston, TX | Cardiology/Oncology/Neurology | 1993 |
| Buffalo Cardiology & Pulmonary Assoc. | Williamsville, NY | Cardiology/Oncology | 1995 |
| Hadassah Hospital | Israel | Cardiology/Oncology/Neurology | 1995 |
| Baptist Hospital | Nashville, TN | Cardiology/Oncology/Neurology | 1996 |
| Nishidai Clinic (3 systems) | Japan | Cardiology/Oncology/Neurology | 2000 |
| National Institute of Radiological Sciences | Japan | Cardiology/Oncology/Neurology | 2000 |
| Heart Center of the Niagara | Niagara Falls, NY | Cardiology/Oncology/Neurology | 2000 |
| McAllen PET Imaging Center | Laredo, TX | Cardiology/Oncology | 2001 |
| Nishidai Clinic (2 systems) | Japan | Cardiology/Oncology/Neurology | 2002 |
| Crawford Long Hospital | Atlanta, GA | Cardiology/Oncology | 2002 |
| Lancaster Cardiology Medical Group | Lancaster, CA | Cardiology/Oncology | 2003 |
| Health Imaging Services | Cullman, AL | Cardiology/Oncology | 2003 |
| Hermann Hospital | Houston, TX | Cardiology/Oncology | 2003 |
| Decatur Health Imaging | Decatur, AL | Cardiology/Oncology/Neurology | 2004 |
| Baptist Hospital | Nashville, TN | Cardiology/Oncology/Neurology | 2004 |
| Laredo Molecular Imaging | Laredo, TX | Cardiology/Oncology/Neurology | 2004 |

PET technology is an advanced imaging technique, which permits the measurement of the biological processes of organs and tissues, as well as producing anatomical and structural images. Other advanced imaging techniques, such as magnetic resonance imaging (“MRI”) and computed tomography (“CT”), produce anatomical and structural images, but do not image or measure biological processes. The ability to measure biological abnormalities in tissues and organs allows physicians to detect disease at an early stage, and provides information, which would otherwise be unavailable,

to diagnose and treat disease. The Company believes that PET technology can lower the total cost of diagnosing and tracing certain diseases by providing a means for early diagnosis and reducing expensive, invasive or unnecessary procedures, such as angiograms or biopsies which, in addition to being costly and painful, may not be necessary or appropriate.

Commercialization of PET technology commenced in the mid-1980s and the Company is one of several commercial manufacturers of PET imaging systems in the United States. Although the other manufacturers are substantially larger, the Company believes that its POSICAM™ systems have proprietary operational and performance characteristics, which may provide certain performance advantages over other commercially available PET systems. Such performance advantages include: (i) high count-rate capability and high sensitivity, which result in faster, more accurate imaging; (ii) enhanced ability to use certain types of radiopharmaceuticals, which reduces reliance on a cyclotron and enhances patient throughput; (iii) ability to minimize patient exposure to radiation; and (iv) ability to minimize false positive and false negative diagnoses of disease. The medical imaging industry in which the Company is engaged is, however, subject to rapid and significant technological change. There can be no assurance that the POSICAM™ systems can be upgraded to meet future innovations in the PET industry or that new technologies will not emerge, or existing technologies will not be improved, which would render the Company's products obsolete or non-competitive. See "Item 1. Description of Business - Risks Associated with Business Activities—Substantial Competition and Effects of Technological Change".

The Company's initial focus was the clinical cardiology market, where its POSICAM™ systems have been used to assess the presence and extent of coronary artery disease, such as the effect of arterial blockages and heart damage due to heart attacks. In 1994 and 1995, the Company made technological advances which allowed it to market its products to the neurological and oncological markets. Neurological applications of POSICAM™ systems include diagnoses of certain brain disorders, such as epileptic seizures, dementia, stroke, Alzheimer's disease, Pick's disease and Parkinson's disease. In oncology, POSICAM™ systems are used in the diagnosis and evaluation of melanoma and tumors of the bone and various organs and tissues such as the brain, lungs, liver, colon, breasts and lymphatic system.

Medical Imaging Industry Overview

Diagnostic imaging allows a physician to assess disease, trauma or dysfunction without the necessity of surgery. The diagnostic imaging industry includes ultrasound, X-ray, MRI, CT, and nuclear medicine (which includes PET and Single-Photon Emission Computed Tomography ("SPECT")). MRI technology uses powerful magnetic fields to provide anatomical and structural images of the brain, the spine and other soft tissues, as well as determining the location and size of tumors. CT scans use X-ray beams to obtain anatomical and structural images of bones and organs. Nuclear medicine focuses on providing information about the function and biological processes of organs and tissues through the use of radiopharmaceuticals.

The first prototype PET scanner was developed in the mid 1970s and the first commercial PET scanner was constructed in 1978. Approximately 1,600 dedicated PET systems are currently operational in the United States and approximately 500 additional dedicated PET systems are in commercial use internationally.

PET Technology

The PET imaging process begins with the injection of a radiopharmaceutical (a drug containing a radioactive agent) by a trained medical person into a patient's bloodstream. After being distributed within the patient's body, the injected radiopharmaceutical undergoes a process of radioactive decay, whereby positrons (positively charged electrons) are emitted and subsequently converted along with free electrons into two gamma rays or photons. These paired gamma events are detected by the POSICAM™ systems as coincidence events. The source of the photons is determined and is reconstructed into a color image of the scanned organ utilizing proprietary computer software. Since certain functional processes, such as blood flow, metabolism or other biochemical processes, determine the concentration of the radiopharmaceutical throughout the body, the intensity or color at each point in the PET image directly maps the vitality of the respective function at that point within an organ.

In cardiology, PET imaging is an accurate, non-invasive method of diagnosing or assessing the severity of coronary artery disease. Unlike other imaging technologies, PET technology allows a physician to determine whether blood flow to the heart muscle is normal, thereby identifying narrowed coronary arteries, and whether damaged heart muscle is viable and may benefit from treatment such as bypass surgery or angioplasty. In addition, dynamic and gated imaging can display and measure the ejection fraction and wall motion of the heart.

In neurology, PET imaging is now being used as a surgical planning tool to locate the source of epileptic disturbances in patients with uncontrollable seizures. In other neurological applications, PET is used in the diagnosis of dementia, Alzheimer's disease, Pick's disease and Parkinson's disease, and in the evaluation of stroke severity.

In oncology, PET imaging has historically been used to measure the metabolism of tumor masses after surgery or chemotherapy. Clinical experience has shown that PET is more accurate than CT scans or MRI in determining the effectiveness of chemotherapy and radiotherapy in the treatment of cancer. PET scans are becoming commonly used to assess suspected breast cancer and whether the lymph system has become involved. Whole body PET scans are now routinely performed to survey the body for cancer. This application enables oncologists to see the total picture of

all metastases in a patient, thereby allowing them to properly tailor the course of treatment.

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The radiopharmaceuticals employed in PET imaging are used by organs in their natural processes, such as blood flow and metabolism, without affecting their normal function, and quickly dissipate from the body. Radiopharmaceuticals used in PET procedures expose patients to a certain amount of radiation, which is measured in units of milliRads. Exposure to radiation can cause damage to living tissue, and the greater the radiation exposure, the greater the potential for damage. Certain PET procedures expose a patient to less radiation than would be associated with other imaging technologies. A PET cardiac scan, using the radiopharmaceutical Rubidium-82, results in exposure of approximately 96 milliRads, while a neurological PET scan using 18-FDG, results in exposure of approximately 390 milliRads. In contrast, a typical chest X-ray results in exposure of approximately 150 milliRads and a CT scan results in exposure of approximately 500 to 4,000 milliRads, depending on the procedure.

Radiopharmaceuticals used in PET technology can be created using many natural substances including carbon, oxygen, nitrogen and fluorine. The PET procedure to be performed determines the type of radiopharmaceutical used. Radiopharmaceuticals are made ready for use at a clinic, hospital, or commercial nuclear pharmacy by either a cyclotron or generator. Cyclotrons require an initial capital investment of up to \$2 million, an additional capital investment for site preparation, and significant annual operating expenses. Generators require an initial capital investment of approximately \$60,000, no additional capital investment for site preparation, and monthly operating expenses of approximately \$30,000. While POSICAM™ systems have been designed flexibly to be used with both cyclotron and generator-produced radiopharmaceuticals, they have proprietary design features that enhance their ability to use generator-produced radiopharmaceuticals. As a result, clinics or hospitals intending to focus on certain cardiac PET applications can avoid the significant capital and operating expenses associated with a cyclotron.

Marketing Strategy

The Company's initial marketing strategy targeted clinical cardiology based on research conducted at the University of Texas. This research showed the commercial potential of clinical cardiology applications of PET imaging. With the development of the POSICAM™ HZ, POSICAM™ HZL series and now the mPT™ series of systems, Positron is pursuing the full oncology, cardiology and neurology related PET application markets. The Company believes that it can capture additional market share by leveraging its strong reputation in the cardiology marketplace to continue to strengthen its leadership position in this sector, while building its expertise and reputation in the oncology and neurology application markets.

To market its systems, Positron relies on referrals from users of its existing base of installed scanners, trade show exhibits, trade journal advertisements, clinical presentations at professional and industry conferences, and published articles in trade journals. The Company uses both sales personnel and key distributors who have geographic or market expertise. Positron incurs minimal expense for sales until there is a completed sale. Positron continued to broaden its communications with the market in support of sales through its developing distribution network and using the internet and directed mailings. We believe that this approach will be cost effective and allow Positron to compete cost effectively with larger competitors. There is no assurance that the Company's marketing strategy is sufficiently aggressive to compete against larger, better funded competitors.

The POSICAM™ System

At the heart of the POSICAM™ system is its detector assembly, which detects the gammas from positron emissions, and electronic circuits that pinpoint the location of each emission. POSICAM™ systems are easy to use and are neither physically confining nor intimidating to patients. POSICAM™ scans are commonly performed on an outpatient basis.

The Company's POSICAM™ system compares favorably with PET systems produced by other manufacturers based upon count rate and sensitivity. The count-rate and sensitivity of an imaging system determine its ability to detect, register and assimilate the greatest number of meaningful positron emission events in the shortest period of time. The

high count-rate capability and sensitivity of the POSICAM™ systems result in good diagnostic accuracy as measured by fewer false positives and false negatives. Further benefits of high count-rate and sensitivity include faster imaging and the ability to use short half-life radiopharmaceuticals, thereby reducing patient exposure to radiation and potentially reducing the capital cost to some purchasers by eliminating the need for a cyclotron for certain cardiac applications.

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The detector assembly consists of crystals, which scintillate (emit light) when exposed to gamma photons from positron-electron annihilations, in combination with photomultiplier tubes, which are coupled to the crystals and convert the scintillations into electrical impulses. The Company employs its own patented staggered crystal array design for the POSICAM™ detectors. Unlike competing PET systems, this feature permits the configuration of the detector crystals to collect overlapping slices and more accurately measure the volume of interest by eliminating image sampling gaps. This is important since under-sampling, or gaps in sampling, can contribute to an inaccurate diagnosis. The crystal design also reduces “dead time” - the time interval following the detection and registration of an event during which a subsequent event cannot be detected. The basic unit of identification within each crystal module is small, thereby reducing the probability of multiple hits during a dead period for higher levels of radioactive flux (activity in the patient).

The POSICAM™ system creates a high number of finely spaced image slices. An image slice is a cross-sectional view that is taken at an arbitrary angle to the angle of the organ being scanned, and not necessarily the angle a physician wishes to view. The POSICAM™ computer can then adjust the cross-sectional view to create an image from any desired angle. The high number of finely spaced image slices created by the POSICAM™ system enhances the accuracy of the interpreted image set.

An integral part of a POSICAM™ system is its proprietary data acquisition microprocessor and its application system software. The Company’s software can reconstruct an image in five seconds or less. The Company has expended substantial effort and resources to develop computer software that is user-friendly and clinically oriented. The only personnel needed to perform clinical studies with the POSICAM™ systems are a trained nurse, a trained technician and an overseeing physician for patient management and safety.

POSITAM™ HZ, HZL andPower™

In addition to the basic POSICAM™ system, the Company offers two advanced versions, the POSICAM™ HZ and the POSICAM™ HZL, which are now being further enhanced to become the mPower™ product line. Oncologists and neurologists require enhanced resolution and a large field of view to detect small tumors and scan large organs, such as the liver. The mPower™ systems employ new detector concepts to satisfy these needs while maintaining the high count rate capability and sensitivity of the basic POSICAM™. In May 1991, the Company received approval from the FDA to market the POSICAM™ HZ, and in May 1993, the Company received a patent for the innovative light guide and detector staggering concepts used in the POSICAM™ HZ and HZL. In July 1993, the Company received FDA approval to market in the United States the POSICAM™ HZL, which has a larger axial field of view than the POSICAM™ HZ, facilitating whole body scanning and the scanning of large organs. In July 2002, the Company received FDA approval to market in the United States the POSICAM™ mPower™ system.

The Company believes that the special features of the POSICAM™ HZL and mPower™ systems enhance their usefulness in oncology and neurology applications. Furthermore, many price sensitive hospitals and health care providers may seek to leverage external resources for the delivery of PET diagnostic services for their patients. To respond to this market need, the Company intends to expand into the mobile PET market, for which the Company has previously received 510(k) approval from the FDA. In addition, the POSICAM™ system has been registered with the State of Texas Department of Health, Bureau of Radiation Control, as a Device suitable for both stationary and mobile use.

Customer Service and Warranty

The Company has three (3) field service engineers in the United States who have primary responsibility for supporting and maintaining the Company’s installed equipment base. In addition, the Company has field engineers involved in site planning, customer training, sales of hardware upgrades, sales and administration of service contracts, telephone technical support and customer service.

The Company typically provides a one-year warranty to purchasers of POSICAM™ systems. However, in the past, the Company offered multi-year warranties to facilitate sales of its systems. Following the warranty period, the Company offers purchasers a

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comprehensive service contract under which the Company provides all parts and labor, system software upgrades and unlimited service calls. The Company offers to provide service to all of its POSICAM™ systems, six (6) of which are under formal service contracts and five (5) expire in 2005. The Company intends to negotiate the extension of all of the service contracts expiring in 2005; however, there can be no assurance that such extensions will be obtained.

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The Company's service goal is to maintain maximum system uptime. Success of a clinical site is largely dependent on patient volume during normal working hours and, therefore, equipment uptime and reliability are key factors in this success. Records compiled by the Company show an average uptime of more than 95% for all installed POSICAM™ systems during 2004 and 2003.

Competition

The Company faces competition primarily from three very large commercial manufacturers of PET systems and from other imaging technologies. The Company does not believe that MRI and CT scan imaging represent significant competing technologies, but rather complementary technologies to PET, since PET, MRI and CT scans each provide information not available from the others. However, magnetic resonance angiography ("MRA") is seen by some cardiologists to be competitive with PET myocardial perfusion imaging ("MPI").

The Company's primary competition from commercial manufacturers of PET systems comes from General Electric Medical Systems ("GEMS") a division of General Electric Company ("GE"), Siemens Medical Systems, Inc. ("Siemens") which recently announced the acquisition of its joint venture partner, CTI, Inc., and ADAC Medical Systems, which was acquired by Philips Medical ("Philips"). GE, Siemens and Philips have substantially greater financial, technological and personnel resources than the Company. See "Item 1. Description of Business—Risk Associated with Business Activities—Substantial Competition and Effects of Technological Change". In addition, two Japanese manufacturers, Hitachi and Shimadzu, have manufactured and sold PET scanners in Japan and are beginning to sell in the United States. These manufacturers represent additional sources of competition that have greater financial, technological and personnel resources than the Company.

GE, Siemens and Philips have introduced a scanner that combines CT scanning and PET in one unit. This scanner type has put Positron at a competitive disadvantage. High field MRI technology, an advanced version of MRI, is in the development stage, but is a potential competitor to PET in certain neurology and oncology applications. Presently, high field MRI may be useful in performing certain research (non-clinical) applications such as blood flow studies to perform "brain mapping" to localize the portions of the brain associated with individual functions (such as motor activities and vision). However, high field MRI does not have the capability to assess metabolism. The Company cannot presently predict the future competitiveness of high field MRI.

Third-Party Reimbursement

POSICAM™ systems are primarily purchased by medical institutions and clinics, which provide health care services to their patients. Such institutions or patients typically bill or seek reimbursement from various third-party payers such as Medicare, Medicaid, other governmental programs and private insurance carriers for the charges associated with the provided healthcare services. The Company believes that the market success of PET imaging depends largely upon obtaining favorable coverage and reimbursement policies from such programs and carriers.

Medicare/Medicaid reimbursement. Prior to March 1995, Medicare and Medicaid did not provide reimbursement for PET imaging. Decisions as to such policies for major new medical procedures are typically made by the Center for Medicare and Medicaid Services ("CMS") formerly the U.S. Health Care Financing Administration, based in part on recommendations made to it by the Office of Health Technology Assessment ("OHTA"). Historically, OHTA has not completed an evaluation of a procedure unless all of the devices and/or drugs used in the procedure have received approval or clearance for marketing by the FDA. Decisions as to the extent of Medicaid coverage for particular technologies are made separately by the various state Medicaid programs, but such programs tend to follow Medicare national coverage policies. In 1999, CMS approved reimbursement on a trial basis for limited cardiac, oncological, and neurological diagnostic procedures. In December 2000, CMS expanded its coverage in cardiology, oncology and neurology for centers utilizing true PET scanners. In July 2001, CMS further expended its coverage of these

procedures and virtually eliminated reimbursement for SPECT imagers performing PET scans. This helped to strengthen the market for “true” PET scanners. In 2001, CMS also implemented its procedures to differentiate hospital based outpatient services from free-standing outpatient services. Under this new program, hospital based PET centers are to be paid less for providing PET services than free-standing centers. This program was to be finalized in 2002. Through 2004, CMS has continued to approve additional procedures for reimbursement. Effective January 30, 2005, CMS announced its intention to expand PET coverage for cervical cancer, and an expansion to all cancers sometime in March 2005. Although expanding, Medicare and Medicaid reimbursement for PET imaging continues to be restrictive. The Company believes that restrictive reimbursement policies have had a very significant adverse affect on widespread use of PET imaging and have, therefore, adversely affected the Company’s business, financial condition, results of operations and cash flows.

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In 1996, CMS approved reimbursement for one PET procedure in cardiology. In 1998, four additional procedures in cardiology, oncology and neurology were approved. In February 1999, three additional procedure reimbursements were approved in oncology. In December 2000, six additional procedure reimbursements were approved in oncology, one in cardiology and one in neurology. In 2001, further refinements of the reimbursement policies were introduced with expansion in oncology. Whether CMS will continue to approve additional reimbursable procedures, and whether private insurers will follow CMS's lead are unknown at this time. PET scanner demand in the US increased markedly after the announcement of increasing reimbursement. It is unknown at this time if the increase in demand will be sustained as reimbursement expands.

In March 2000, the FDA issued a "Draft Guidance" finding 18-FDG and 13-NH₃ (radiopharmaceuticals used in the Company's PET scanner) to be safe and effective for broad oncology and cardiology indications. There is no assurance, however, that the FDA's findings in the future will not change or that additional radiopharmaceuticals will be approved.

Private insurer reimbursement. Until the expansion of coverage of CMS, most insurance carriers considered PET imaging to be an investigational procedure and did not reimburse for procedures involving PET imaging. However, this perspective has begun to change as a result of Medicare's expanding acceptance of reimbursements for certain PET procedures. The Company believes that certain private insurance carriers are expanding coverage as experience is gained with PET imaging procedures. While they may not have broad PET reimbursement policies in place today, those providing some reimbursement for PET scans do so on a case-by-case basis.

Any limitation of Medicare, Medicaid or private payer coverage for PET procedures using the POSICAMTM system will likely have a material adverse effect on the Company's business, financial condition, results of operations and cash flows.

Manufacturing

The Company believes that it currently has the ability to assemble its POSICAMTM scanners in its 7,963 square foot facility located in Houston, Texas. Scanners are generally produced by assembling parts furnished to the Company by outside suppliers. The Company believes that it can assemble and test a typical POSICAMTM system in two to three months.

There are several essential components of the Company's POSICAMTM and mPowerTM systems which are obtained from limited or sole sources, including bismuth germinate oxide ("BGO") crystals, which detect gamma photons from positron emissions, and photomultiplier tubes, which convert light energy emitted by such crystals into electrical impulses for use in the image reconstruction process. During 2000, the Company qualified a second vendor for BGO crystal assemblies. This has reduced the Company's exposure in this critical component. While the Company attempts to make alternate supply arrangements for photomultiplier tubes and other critical components, in the event that the supply of any of these components is interrupted, there is no assurance that those arrangements can be made and will provide sufficient quantities of components on a timely or uninterrupted basis. Further, there is no assurance that the cost of supplies will not rise significantly or that components from alternate suppliers will continue to meet the Company's needs and quality control requirements.

Research and Development

The Company's POSICAMTM systems are based upon proprietary technology initially developed at the University of Texas Health Science Center ("UTHSC") in Houston, Texas, under a \$24 million research program begun in 1979 and funded by UTHSC and The Clayton Foundation for Research ("Clayton Foundation"), a Houston-based, non-profit organization. Since that time, the Company has funded further product development and commercialization of the

system. These research and development activities are costly and critical to the Company's ability to develop and maintain improved systems. The Company's research and development expenses were approximately \$401,000 and \$671,000 for the years 2004 and 2003, respectively. The Company's inability to conduct such activities in the future may have a material adverse affect on the Company's business as a whole.

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Patent and Royalty Arrangements

The Company acquired the know-how and patent rights for positron imaging from three entities: the Clayton Foundation, K. Lance Gould (formerly a director) and Nizar A. Mullani (also formerly a director.) Pursuant to agreements with each of them, the Company was obligated to pay royalties of up to 4.0% in the aggregate of gross revenues from sales, uses, leases, licensing or rentals of the relevant technology. Royalty obligations amounting to approximately \$314,000 were included in liabilities at December 31, 2004.

Two of the Company's patents, issued in January 1986 and February 1987 and expiring in January 2003 and February 2004, respectively, relate to the staggered crystal array design of its original POSICAM™ systems. One additional patent issued in June 1987 and expiring in June 2004 relates to technology, which the Company, by obtaining the patent, has reserved the right to use. The Company maintains certain of its patents in Germany and has applied for certain patents in Japan.

The Company seeks to protect its trade secrets and proprietary know-how through confidentiality agreements with its consultants. The Company requires each consultant to enter into a confidentiality agreement containing provisions prohibiting the disclosure of confidential information to anyone outside the Company, and requiring disclosure to the Company of any ideas, developments, discoveries or investigations conceived during service as a consultant and the assignment to the Company of patents and proprietary rights to such matters related to the business and technology of the Company.

Backlog

As of December 31, 2004, the Company had no outstanding orders for mPower™ systems.

Product Liability and Insurance

Medical device companies are subject to a risk of product liability and other liability claims in the event that the use of their products results in personal injury claims. The Company has not experienced any product liability claims to date. The Company maintains liability insurance with coverage of \$1 million per occurrence and an annual aggregate maximum of \$2 million.

Employees

As of December 31, 2004, the Company employed sixteen (16) full-time employees and four (4) consultants: five (5) in engineering, three (3) in customer support, four (4) in manufacturing, four (4) in sales and marketing, and four (4) in the executive and administration department. None of the Company's employees are represented by a union.

Risks Associated with Business Activities

History of Losses. To date the Company has been unable to sell POSICAM™ systems in quantities sufficient to be operationally profitable. Consequently, the Company has sustained substantial losses. During the year ended December 31, 2004, the Company had a net loss of approximately \$1,658,000, compared to a net income of \$892,000 during 2003. During 2003, \$2,376,000 of income was the result of a non-recurring sale of the Company's Cardiac PET Software. At December 31, 2004, the Company had an accumulated deficit of approximately \$58,433,000. There can be no assurances that the Company will ever achieve the level of revenues needed to be operationally profitable in the future and if profitability is achieved, that it will be sustained. Due to the sizable sales price of each POSICAM™ system and the limited number of systems that have been sold or placed in service in each fiscal period, the Company's revenues have fluctuated, and may likely continue to fluctuate significantly from quarter to quarter and from year to

year. The opinion of the Company's independent auditors for the year ended December 31, 2004 expressed substantial doubt as to the Company's ability to continue as a going concern. The Company will need to increase system sales to become profitable or obtain additional capital.

Recruiting and Retention of Qualified Personnel. The Company's success is dependent to a significant degree upon the efforts of its executive officers and key employees. The loss or unavailability of the services of any of its key personnel could have a material adverse effect on the Company. The Company's success is also dependent upon its ability to attract and retain qualified personnel in all areas of its business, particularly management, research and development, sales and marketing and engineering. There can be no assurance that the Company will be able to continue to hire and retain a sufficient number of qualified personnel. If the Company is unable to retain and attract such qualified personnel, its business, operating results and cash flows could be adversely affected.

Working Capital At December 31, 2004, the Company had cash and cash equivalents of \$133,000 compared to \$5,000 at December 31, 2003. The Company concluded a private placement in August 1999, which resulted in an equity infusion of approximately \$11,400,000 net to the Company. In 2001, the Company received \$2,000,000 in proceeds on a note payable to a stockholder. In 2004, the Company received an additional \$1,550,000 in loan proceeds from an affiliated entity. In spite of the equity infusion and loan proceeds, the Company believes that it is possible that it may continue to experience operating losses and accumulate deficits in the foreseeable future. If we are unable to obtain financing to meet our cash needs we may have to severely limit or cease our business activities or may seek protection from our creditors under the bankruptcy laws.

NASDAQ SmallCap Market Eligibility Failure to Meet Maintenance Requirements: Delisting of Securities from the NASDAQ System. The Company's common stock was previously listed on the NASDAQ SmallCap Market. The Board of Governors of the National Association of Securities Dealers, Inc. ("NASD") has established certain standards for the continued listing of a security on the NASDAQ SmallCap Market. The standards required for the Company to maintain such listing include, among other things, that the Company have total capital and surplus of at least \$2,000,000. In 1997, the Company failed to maintain its NASDAQ stock market listing and may not meet the substantially more stringent requirements to be re-listed for some time in the future. There can be no assurances that the Company will ever meet the capital and surplus requirements needed to be re-listed under the NASDAQ SmallCap Market System.

Trading of the Company's common stock is currently conducted on the NASD's OTC Bulletin Board. Trading in the common stock is covered by rules promulgated under the Exchange Act for non-NASDAQ and non-exchange listed securities. Under such rules, broker/dealers who recommend such securities to persons other than established customers and accredited investors must make a special written suitability determination for the purchaser and receive the purchaser's written agreement to a transaction prior to sale. Securities are exempt from these rules if the market price is at least \$5.00 per share. As of December 31, 2004, the closing price of the Company's common stock was \$0.12. In addition, the SEC has adopted regulations that generally define a penny stock to be any equity security that has a market price of less than \$5.00 per share, subject to certain exceptions. The Company's common stock is currently subject to such penny stock rules. The regulations require the delivery, prior to any transaction involving a penny stock, of a disclosure schedule explaining the penny stock market and the risks associated therewith. As a penny stock, the market liquidity for the Company's common stock is severely affected due to the limitations placed on broker/dealers that sell the common stock in the public market.

Substantial Competition and Effects of Technological Change. The industry in which the Company is engaged is subject to rapid and significant technological change. There can be no assurance that POSICAM™ systems can be upgraded to meet future innovations in the PET industry or that new technologies will not emerge, or existing technologies will not be improved, which would render the Company's products obsolete or non-competitive. The Company faces competition in the United States PET market primarily from GE, CTI/Siemens and ADAC/Philips, each of which has significantly greater financial and technical resources and production and marketing capabilities than the Company. In addition, there can be no assurance that other established medical imaging companies, any of which would likely have greater resources than the Company, will not enter the market. The Company also faces competition from other imaging technologies, which are more firmly established and have a greater market acceptance, including SPECT. There can be no assurance that the Company will be able to compete successfully against any of its competitors.

No Assurance of Market Acceptance. The POSICAM™ systems involve new technology that competes with more established diagnostic techniques. The purchase and installation of a PET system involves a significant capital expenditure on the part of the purchaser. A potential purchaser of a PET system must have an available patient base that is large enough to provide the utilization rate needed to justify such capital expenditure. There can be no assurance that PET technology or the Company's POSICAM™ systems will be accepted by the target markets, or that the

Company's sales of POSICAM™ systems will increase or that the Company will be profitable.

Patents and Proprietary Technology. The Company holds certain patent and trade secret rights relating to various aspects of its PET technology, which are of material importance to the Company and its future prospects. There can be no assurance, however, that the Company's patents will provide meaningful protection from competitors. Even if a competitor's products were to infringe on patents held by the Company, it would be costly for the Company to enforce its rights, and the efforts at enforcement would divert funds and resources from the Company's operations. Furthermore, there can be no assurance that the Company's products will not infringe on any patents of others.

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In addition, the Company requires each of its consultants to enter into a confidentiality agreement designed to assist in protecting the Company's proprietary rights. There can be no assurance that these agreements will provide meaningful protection or adequate remedies for the Company's trade secrets or proprietary know-how in the event of unauthorized use or disclosure of such information, or that others will not independently develop substantially equivalent proprietary information and techniques or otherwise gain access to the Company's trade secrets and proprietary know-how.

Government Regulation. Various aspects of testing, manufacturing, labeling, selling, distributing and promoting our systems and the radiopharmaceuticals used with them are subject to regulation on the federal level by the FDA and in Texas by the Texas Department of Health and other similar state agencies. In addition, sales of medical devices outside the United States may be subject to foreign regulatory requirements that vary widely from country to country. The FDA regulates medical devices based on their device classification. Positron's device is listed as a Class II medical device, the safety and effectiveness for which are regulated by the use of special controls such as published performance standards. To date, the FDA has not published performance standards for PET systems. If the FDA does publish performance standards for PET systems, there can be no assurance that the standards will not have a potentially adverse effect on our product, including substantial delays in manufacturing or disrupting the Company's marketing activities. Other FDA controls, reporting requirements and regulations also apply to manufacturers of medical devices, including: reporting of adverse events and injuries, and the mandatory compliance with the Quality System Regulations commonly known as Good Manufacturing Practices.

In addition to the regulatory requirements affecting the day-to-day operations of the Company's product, the FDA requires medical device manufacturers to submit pre-market clearance information about their proposed new devices and/or proposed significant changes to their existing device prior to their introduction into the stream of commerce. This process, commonly referred to as a 510(k) Clearance, is an extensive written summary of performance information, comparative information with existing medical devices, product labeling information, safety and effectiveness information, intended use information, and the like. Until the FDA has had the opportunity to thoroughly review and "clear" the submission, commercial distribution of the product is specifically disallowed. Although the FDA is required to respond to all pre-market notifications within ninety days of receiving them, the FDA often takes longer to respond. Once the FDA has cleared the device, it notifies the manufacturer in terms of a "substantial equivalence" letter. The manufacturer may begin marketing the new or modified device when it receives the substantial equivalence letter. If the FDA requires additional information or has specific questions, or if the Company is notified that the device is not "substantially equivalent" to a device that has already been cleared, the Company may not begin to market the device. A non-substantial equivalence determination or request for additional information of a new or significantly modified product could materially affect the Company's financial results and operations. There can be no assurance that any additional product or enhancement that the Company may develop will be approved by the FDA. Delays in receiving regulatory approval could have a material adverse effect on the Company's business. The Company submitted an application for such a 510(k) clearance on June 18, 2002 and was granted a new 510(k) on July 12, 2002, number K022001.

Moreover, the FDA routinely inspects medical device manufacturers to determine compliance with Quality System Regulations, and conducted such a routine inspection of the Company's operation in February 2004. The inspection resulted in issuance of nine inspectional observations. The Company is in the process of addressing all nine inspectional observations and providing responses to the FDA. The Company is cooperating fully and intends to continue to work with the FDA on all compliance matters. However, there can be no assurance that any of the Company's corrective actions or responses to the FDA will be determined adequate by the FDA, or that any such corrective actions and responses will meet expected dates of completion for compliance.

In April of 2004, the FDA issued a Warning Letter to the Company based on the findings of the inspection of February 2004. The Warning Letter imposed two restrictions on the Company: 1) applications for premarket approval

will not be granted; 2) no Certificates for Foreign Governments will be granted. In March 2005, the FDA conducted another inspection of the Company. At the time of this writing, the findings of this inspection have not been made available to the Company. It is not known if the FDA will remove the restrictions placed upon the Company by the April 2004 Warning Letter as a result of the findings from the March 2005 inspection.

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In addition to complying with federal requirements, the Company is required under Texas state law to register with the State Department of Health with respect to maintaining radiopharmaceuticals on premises for testing, research and development purposes. Positron submitted a new application to the Texas Department of Health for a Radioactive Material License on July 10, 2000 and was granted a Radioactive Material License with an expiration date of July 31, 2007. While in the past the Company has received notice of only minor violations which were promptly and easily corrected, and while the Company believes that it has taken adequate measures to prevent the recurrence of any violations, there is no assurance that violations may not occur in the future, which could have a material adverse effect on the Company's operations. In addition, Texas state law requires a safety evaluation of devices that contain radioactive materials. The Company submitted an application for such an evaluation to the Texas Department of Health, Bureau of Radiation Control. As a result, Positron's medical diagnostic scanner has been placed on the Registry of Radioactive Sealed Sources and Devices as of September 20, 2001.

The Company's operations and the operations of PET systems are subject to regulation under federal and state health safety laws, and purchasers and users of PET systems are subject to federal and state laws and regulations regarding the purchase of medical equipment such as PET systems. All laws and regulations, including those specifically applicable to the Company, are subject to change. The Company cannot predict what effect changes in laws and regulations might have on its business. Failure to comply with applicable laws and regulatory requirements could have material adverse effect on the Company's business, financial conditions, results of operations and cash flows.

Further, sales of medical devices outside the country may be subject to foreign regulatory requirements. These requirements vary widely from country to country. There is no assurance that the time and effort required to meet those varying requirements may not adversely affect Positron's ability to distribute its systems in some countries.

Certain Financing Arrangements. In order to sell its POSICAM™ systems, the Company has from time to time found it necessary to participate in ventures with certain customers or otherwise assist customers in their financing arrangements. The venture arrangements have involved lower cash prices for the Company's systems in exchange for interests in the venture. These arrangements expose the Company to the attendant business risks of the ventures. The Company has, in certain instances, sold its systems to financial intermediaries, which have, in turn, leased the system. Such transactions may not give rise to the same economic benefit to the Company as would have occurred had the Company made a direct cash sale at its regular market price on normal sale terms. There can be no assurance that the Company will not find it necessary to enter similar transactions to effect future sales. Moreover, the nature and extent of the Company's interest in such ventures or the existence of remarketing or similar obligations could require the Company to account for such transactions as "financing arrangements" rather than "sales" for financial reporting purposes. Such treatment could have the effect of delaying the recognition of revenue on such transactions and may increase the volatility of the Company's financial results.

Product Liability and Insurance. The use of the Company's products entails risks of product liability. There can be no assurance that product liability claims will not be successfully asserted against the Company. The Company maintains liability insurance coverage in the amount of \$1 million per occurrence and an annual aggregate maximum of \$2 million. However, there can be no assurance that the Company will be able to maintain such insurance in the future or, if maintained, that such insurance will be sufficient in amount to cover any successful product liability claims. Any uninsured liability could have a material adverse effect on the Company.

No Dividends. The Company has never paid cash dividends on its common stock and does not intend to pay cash dividends on its common stock in the foreseeable future.

Significant Transactions.

Transactions with Imatron Inc./GE

The Company entered into a loan arrangement on June 29, 2001 with Imatron, a stockholder of the Company, for the purpose of borrowing up to \$2,000,000 to fund operating activities. This loan was collateralized by substantially all the assets of the Company. Interest was charged on the outstanding principal balance at an annual rate of 10% and was payable monthly. As of June 29, 2003 the principal balance of the loan was \$2,000,000. Principal on the loan amounting to \$1,000,000 and \$500,000 was to be repaid within five (5) business days of December 31, 2001 and March 31, 2002, respectively. The remaining \$500,000 of loan principal and all unpaid interest was due and payable no later than June 30, 2002.

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In conjunction with the loan, the Company granted Imatron warrants to purchase 6,000,000 shares of common stock, at an exercise price of \$.30 per share that were exercisable through June 30, 2006. The warrants issued to Imatron had an approximate value of \$200,000 at the date of issue. Such cost was treated as a loan origination cost and amortized to expense over the twelve-month term of the note payable, using the effective interest method.

Imatron had previously acquired 9,000,000 shares of the Company's common stock on January 22, 1999. General Electric Company ("GE") acquired Imatron on December 19, 2001.

Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company's obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company's future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at least four quarters.

Transactions with IMAGIN Diagnostic Centres, Inc.

In May 2004, the Company entered into a series of agreements with IMAGIN Diagnostic Centres, Inc. pursuant to which IMAGIN agreed to provide over the next seven months an aggregate \$2,000,000 of financing to the Company. When the financing is completed and if all the conversion rights are exercised, IMAGIN will control approximately one-half of the Company's common stock.

In the first stage of the financing, IMAGIN agreed to purchase an aggregate of \$700,000 face amount of the Company's 10% secured convertible promissory notes (see note 5 to the Financial Statements). As of December 31, 2004, IMAGIN has purchased \$700,000 of these notes. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company's common stock.

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. IMAGIN agreed to purchase these notes over a six and a half month period, commencing July 15, 2004. As of December 31, 2004, IMAGIN has purchased \$850,000 of these notes. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock.

Pursuant to the terms of the agreements, the Company granted to IMAGIN a security interest in all of its assets to secure payment of the convertible promissory notes. Full convertibility of the shares of Series C and Series D

Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation, which must be approved by the shareholders. The Company has agreed to seek such approval. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

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Item 2. Description of Property

The Company is headquartered in Houston, Texas, where it currently leases a 7,963 square foot facility. That facility includes area for system assembly and testing, a computer room for hardware and software product design, and office space. The rental rate for the facility was \$6,744 per month through April 30, 2001 and the monthly rate increased to \$7,171 for the period from May 1, 2001 through October 31, 2003. The Company reduced its space under lease and lowered the monthly rent to \$4,671 for the period from November 1, 2003 through March 31, 2004. This facility lease continues on a month-to-month basis after March 31, 2004 at the \$4,671 monthly rental rate. The Company anticipates that the facility will be sufficient for its 2005 operating activities.

Item 3. Legal Proceedings

ProFutures Capital Bridge Fund, L.P.

On September 26, 2000, ProFutures Bridge Capital Fund, L.P. ("ProFutures") filed a complaint against the Company in Colorado state court for declaratory relief and breach of contract (the "Complaint"). The Complaint alleged that the Company breached four stock purchase warrants issued to ProFutures on the basis that the Company failed to notify ProFutures of dilutive events and failed to register the full number of shares ProFutures was allegedly entitled to purchase under the warrants when, on February 14, 2000, the Company registered 1,500,000 shares of stock underlying ProFutures' warrants instead of 4,867,571. The Complaint further alleged that the Company's issuance of shares of common stock to Imatron, Inc. on or about January 22, 1999, (the "Imatron Transaction") was a dilutive event pursuant to the anti-dilution provisions contained in the four stock purchase warrants. The Complaint sought declarations that the consideration received by the Company in the Imatron Transaction increased the number of shares issuable under the warrants, the Company breached the warrants by failing to notify ProFutures of the Imatron Transaction and its effect on ProFutures' warrants at the time of the Imatron Transaction and that the Company further breached the warrants by failing to register the number of shares ProFutures alleged were purchasable under its warrants. The Complaint sought an unspecified amount of monetary damages.

The Colorado State level case of ProFutures v. Positron, District Court, City and County of Denver, Colorado, Case No. 00CV7146, was tried before the Court in June 2002. The Court issued its Findings of Fact, Conclusions of Law and Judgment on November 13, 2002. The Court agreed with Positron's determination of the value of the consideration paid for the shares issued to Imatron and that there was no evidence of fraud by Positron. The Court agreed with ProFutures that Positron breached the 1996 stock purchase warrant with ProFutures by failing to give ProFutures written notice stating the adjusted exercise price and the new number of shares deliverable as a result of the Imatron Transaction and by failing to register the shares to which ProFutures was entitled under the warrant as a result of the Imatron Transaction. Nevertheless, the Court also found that ProFutures' alleged damages were uncertain and speculative and that ProFutures was not entitled to recover actual damages. Therefore ProFutures was awarded \$1 in nominal damages. ProFutures appealed the trial Court's findings and Positron cross-appealed. On July 1, 2004, the Court of Appeals, State of Colorado affirmed the District Court decision. ProFutures has appealed this decision to the Supreme Court of the State of Colorado. On February 22, 2005, the appeal by ProFutures was denied.

In the federal case of ProFutures v. Positron, et al., United States District Court for the District of Colorado, Case No. 02-N-0154, the Complaint alleged two causes of action against the Company: fraudulent transfer and injunctive relief. The allegations arose out of a June 2001 loan agreement between Positron and Imatron. The action was dismissed in 2002 without prejudice.

Item 4. Submission of Matters to a Vote of Security Holders

No matter was submitted to a vote of the Company's stockholders, through the solicitation of proxies or otherwise, during the fourth quarter of fiscal year 2004.

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PART II**Item 5. Market for Common Equity and Related Stockholder Matters**

The Company's common stock is currently traded and quoted on the NASDAQ OTC Bulletin Board under the symbol POSC. The Company's common stock was previously traded on the NASDAQ SmallCap Market but was delisted in 1997 because the Company was unable to comply with various financial and compliance requirements for continued inclusion on the NASDAQ SmallCap Market. See "Item 1. Description of Business - Risks Associated with Business Activities."

The following range of the high and low reported closing sales prices for the Company's common stock for each quarter in 2004 and 2003, all as reported on the NASDAQ OTC Bulletin Board. These quotations reflect interdealer prices, without retail mark-up, mark-down or commission and may not represent actual transactions.

| | 2004 | | 2003 | |
|----------------|---------|---------|---------|---------|
| | High | Low | High | Low |
| First Quarter | \$ 0.07 | \$ 0.03 | \$ 0.01 | \$ 0.01 |
| Second Quarter | \$ 0.13 | \$ 0.02 | \$ 0.08 | \$ 0.01 |
| Third Quarter | \$ 0.17 | \$ 0.05 | \$ 0.20 | \$ 0.04 |
| Fourth Quarter | \$ 0.14 | \$ 0.09 | \$ 0.08 | \$ 0.03 |

There were approximately 250 shareholders of record of common stock as of February 28, 2005, including broker-dealers holding shares beneficially owned by their customers.

The Company has never paid cash dividends on its common stock. The Company does not intend to pay cash dividends on its common stock in the foreseeable future. The Series A, C and D Preferred Stock Statements of Designation prohibit the Company from paying any common stock dividends until all required dividends have been paid on the Series A and any outstanding Series C and D Preferred Stock. As of December 31, 2004, approximately \$399,000 of preferred stock dividends are undeclared and unpaid by the Company.

During 2004, the Company sold 10% secured convertible notes in the aggregate principal amount of \$700,000 to IMAGIN Diagnostic Centres, Inc. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of common stock

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. As of December 31, 2004, the Company had sold 10% secured convertible notes in the aggregate principal amount of \$850,000 to IMAGIN in the second stage of financing. The notes are initially convertible into new shares of Series D Preferred Stock, which (upon full funding) in turn is convertible into an aggregate of 52,000,000 shares of common stock. As of December 31, 2004, these notes are also due and payable on May 21, 2006. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

The convertible notes were sold in private transactions outside the U.S. in accordance with Regulation S, promulgated under the Securities Act of 1933, as amended.

The Company's equity plan information required by this item is set forth under Item 11 of Part III below.

Item 6.

Management's Discussion and Analysis or Plan of Operation

General

The Company was incorporated in December 1983 and commenced commercial operations in 1986. Since that time, the Company has generated revenues primarily from the sale and service contract revenues derived from the Company's POSICAM™ system, 12 of which are currently in operation in certain medical facilities in the United States and 7 are operating in international medical institutions. The Company has never been able to sell its POSICAM™ systems in sufficient quantities to achieve operating profitability.

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Transactions with Imatron Inc./GE

In May 1998, the Company entered into a series of agreements (the "Imatron Transaction") with Imatron Inc., a New Jersey corporation and technology-based company engaged principally in the business of designing, manufacturing and marketing a high performance computed tomography system, pursuant to which on January 22, 1999, Imatron acquired majority ownership of the Company. In conjunction with the execution of definitive agreements in May 1998, Imatron began making working capital advances available to the Company of up to \$500,000 in order to enable the Company to meet a portion of its current obligations. The loan agreement was thereafter amended by oral agreement to increase the working capital advances available under the loan agreement up to an additional \$100,000. As of December 31, 1998, the Company had borrowed \$600,000 pursuant to those agreements. The loan bore interest at 1/2% over the prime rate and was secured by all of Positron's assets.

Pursuant to the agreement, Imatron acquired 9,000,000 shares of the Company's common stock on January 22, 1999, representing, at that time, a majority ownership of the outstanding common stock of the Company on a fully-diluted and as-if-converted basis, excluding out-of-the-money warrants and options determined at that time. In exchange, the Company received from Imatron (a) nominal cash; (b) an immediate loan of up to \$500,000 in working capital to assist the Company in meeting then current financial obligations; (c) an agreement that Imatron would undertake all reasonable efforts to have its affiliate, Imatron Japan, Inc. assist the Company in the sale of 10 POSICAM™ systems over the next three years; (d) an agreement that Imatron would help facilitate the recapitalization of the Company to support its re-entry into the medical imaging market by using its best efforts to arrange for additional third-party equity financing for the Company over an eighteen-month period in an aggregate amount of not less than \$8,000,000; and (e) a new management team selected by Imatron.

Consummation of the issuance of shares to Imatron was conditioned upon, among other things (a) the resignation of each officer of Positron, (b) the resignation of at least three of the four Positron directors and the appointment of Imatron's nominees to fill such vacancies, and (c) Positron shareholder approval of an amendment to Positron's Articles of Incorporation to increase its authorized common stock to 100,000,000 shares of common stock. All of those conditions were met, and the shares were issued on January 22, 1999. Through Imatron's efforts, private placements were concluded in August 1999 resulting in a net equity infusion of approximately \$11.4 million to Positron.

As part of the consummation of the Imatron Transaction in January 1999, all of the Company's officers resigned and all directors, except for Gary B. Wood, resigned from the Board. S. Lewis Meyer was appointed as Chairman of the Company's Board of Directors. Mr. Meyer is neither an employee nor an executive officer of the Company. Gary H. Brooks was also appointed to serve on the Company's Board of Directors. Additionally, Mr. Brooks was appointed as President, Secretary, and Acting Chief Financial Officer. The Company's shareholders approved an amendment to Positron's Articles of Incorporation to increase its authorized common stock to 100,000,000 shares.

The Company entered into a loan arrangement on June 29, 2001 with Imatron for the purpose of borrowing up to \$2,000,000 to fund operating activities. This loan was collateralized by substantially all the assets of the Company. Interest was charged on the outstanding principal balance at an annual rate of 10% and was payable monthly. As of June 29, 2003 the principal balance of the loan was \$2,000,000. Principal on the loan amounting to \$1,000,000 and \$500,000 was to be repaid within five (5) business days of December 31, 2001 and March 31, 2002, respectively. The remaining \$500,000 of loan principal and all unpaid interest was due and payable no later than June 30, 2002.

In conjunction with the loan, the Company granted Imatron warrants to purchase 6,000,000 shares of common stock, at an exercise price of \$.30 per share that were exercisable through June 30, 2006. The warrants issued to Imatron had an approximate value of \$200,000 at the date of issue. Such cost was treated as a loan origination cost and amortized to expense over the twelve-month term of the note payable, using the effective interest method.

Imatron had previously acquired 9,000,000 shares of the Company's common stock on January 22, 1999. General Electric Company ("GE") acquired Imatron on December 19, 2001.

Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company's obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company's future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

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As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at least four quarters.

Transactions with IMAGIN Diagnostic Centres, Inc.

In May 2004, the Company entered into a series of agreements with IMAGIN Diagnostic Centres, Inc. pursuant to which IMAGIN agreed to provide over the next seven months an aggregate \$2,000,000 of financing to the Company. When the financing is completed and if all the conversion rights are exercised, IMAGIN will control approximately one-half of the Company's common stock.

In the first stage of the financing, IMAGIN agreed to purchase an aggregate of \$700,000 face amount of the Company's 10% secured convertible promissory notes (see note 5). As of December 31, 2004, IMAGIN has purchased \$700,000 of these notes. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company's common stock.

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. IMAGIN agreed to purchase these notes over a six and a half month period, commencing July 15, 2004. As of December 31, 2004, IMAGIN has purchased \$850,000 of these notes. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock.

Pursuant to the terms of the agreements, the company granted to IMAGIN a security interest in all of its assets to secure payment of the convertible promissory notes. Full convertibility of the shares of Series C and Series D Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation which must be approved by the shareholders. The Company has agreed to seek such approval. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

Results of Operations

The operations of the Company for the year ended December 31, 2004 resulted in a loss of \$1,658,000 compared to income of \$892,000 in 2003. The operating results in 2003 included a \$2,376,000 gain on the sale of the Company's Cardiac PET Software.

Revenues. The Company generated revenues of \$1,150,000 from the sale of one system in the year ended December 31, 2004 compared to revenues of \$3,459,000 on the sale of three systems in 2003. We earned revenues of \$691,000 from upgrades of systems in 2004, an increase of \$414,000 compared to revenues from system upgrades of \$277,000 in the previous year. Our service revenues decreased \$393,000 to \$939,000 in the year ended December 31, 2004 from \$1,332,000 in 2003. The decrease in service revenues primarily resulted from the termination of service on several systems. Service revenues include \$200,000 and \$100,000 in fees relating to support provided to GE Medical Systems

in conjunction with sale of our Cardiac PET Software 2004 and 2003, respectively.

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Costs of Revenues. The Company incurred costs of \$1,178,000 on the sale of one system in 2004 compared to costs of \$3,229,000 on the sale of three systems in 2003. Costs related to system upgrades increased \$171,000 to \$284,000 in the year ended December 31, 2004 compared to \$113,000 in the previous year. Costs related to service, warranty and components decreased \$363,000 to \$321,000 in 2004 compared to \$684,000 in 2003. The \$363,000 reduction in expense is primarily due to lower personnel costs.

Operating Expenses. The Company's operating expenses increased \$76,000 to \$2,499,000 for the year ended December 31, 2004 from \$2,423,000 in 2003. Selling, general and administrative expenses decreased \$17,000 to \$1,735,000 during the year ended December 31, 2004 from \$1,752,000 in the previous year. Research and development expenses decreased \$270,000 to \$401,000 from \$671,000 primarily due to lower personnel costs. We recognized \$363,000 of compensation related to the re-pricing of warrants and options in 2004.

Other Income (Expenses). Interest expense increased \$54,000 to \$157,000 in the year ended December 31, 2004 from \$103,000 in 2003. Interest expense in 2004 relates to the notes payable to IMAGIN and includes \$92,000 in loan cost amortization. Interest expense in 2003 relates to the indebtedness to Imatron that was cancelled effective June 29, 2003. The Company recognized a gain of \$2,376,000 from the sale of the Cardiac PET Software in 2003.

Net Operating Loss Carryforwards

The Company has incurred losses since its inception and, therefore, has not been subject to federal income taxes. As of December 31, 2004, the Company had net operating loss ("NOL") carryforwards for income tax purposes of approximately \$12,000,000, which expire in 2005 through 2024. Under the provisions of Section 382 of the Internal Revenue Code the greater than 50% ownership changes that occurred in the Company in connection with the Imatron Transaction and in connection with the private placement of the Company's common stock limited the Company's ability to utilize its NOL carryforward to reduce future taxable income and related tax liabilities.

Liquidity and Capital Reserves

Since its inception the Company has been unable to sell POSICAMTM systems in quantities sufficient to be operationally profitable. Consequently, the Company has sustained substantial losses. At December 31, 2004, the Company had an accumulated deficit of \$58,433,000. Due to the sizable prices of the Company's systems and the limited number of systems sold or placed in service each year, the Company's revenues have fluctuated significantly year to year.

At December 31, 2004, the Company had cash and cash equivalents of \$133,000 compared to \$5,000 at December 31, 2003. The Company concluded a private placement in August 1999, which resulted in an equity infusion of approximately \$11,400,000 net to the Company. In 2001, the Company received \$2,000,000 in proceeds on a note payable to a stockholder. In 2004, the Company received an additional \$1,550,000 in loan proceeds from an affiliated entity. In spite of the equity infusion and loan proceeds, the Company believes that it is possible that it may continue to experience operating losses and accumulate deficits in the foreseeable future. If we are unable to obtain financing to meet our cash needs we may have to severely limit or cease our business activities or may seek protection from our creditors under the bankruptcy laws.

The opinion of the Company's independent auditor for the year ended December 31, 2004, expressed substantial doubt as to the Company's ability to continue as a going concern. The Company will need to increase system sales to become profitable or obtain additional capital.

Related Party Transactions

Imatron Transaction. In May 1998, the Company entered into an agreement (the “Imatron Transaction”) with Imatron. Pursuant to the agreement, Imatron acquired 9,000,000 shares of the Company’s common stock on January 22, 1999, representing at that time, a majority ownership of the outstanding common stock of the Company on a fully-diluted and as-if-converted basis, excluding out-of-the-money warrants and options determined at that time. In exchange, the Company received from Imatron (a) nominal cash; (b) an immediate loan of up to \$500,000 in working capital to assist the Company in meeting then current financial obligations; (c) an agreement that Imatron would undertake all reasonable efforts to have its affiliate, Imatron Japan, Inc. assist the Company in the sale of 10 POSICAM™ systems over the next three years; (d) an agreement that Imatron would help facilitate the recapitalization of the Company to support its re-entry into the medical imaging market by using its best efforts to arrange for additional third-party equity financing for the Company over an eighteen-month period in an aggregate amount of not less than \$8,000,000; and (e) a new management team selected by Imatron. During the year ended December 31, 2001, Imatron loaned the Company \$2,000,000 (Note 7). On December 19, 2001, Imatron was acquired by General Electric Company. General Electric Company is a competing manufacturer of PET imaging systems.

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Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company's obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company's future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at least four quarters.

IMAGIN Transaction

In May 2004, the Company entered into a series of agreements with IMAGIN pursuant to which IMAGIN agreed to provide over the next seven months an aggregate \$2,000,000 of financing to the Company. When the financing is completed and if all the conversion rights are exercised, IMAGIN will control approximately one-half of the Company's common stock.

In the first stage of the financing, IMAGIN agreed to purchase an aggregate of \$700,000 face amount of the Company's 10% secured convertible promissory notes (see note 5). As of December 31, 2004, IMAGIN has purchased \$700,000 of these notes. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company's common stock.

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. IMAGIN agreed to purchase these notes over a six and a half month period, commencing July 15, 2004. As of December 31, 2004, IMAGIN has purchased \$850,000 of these notes. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock.

Pursuant to the terms of the agreements, the Company granted to IMAGIN a security interest in all of its assets to secure payment of the convertible promissory notes. Full convertibility of the shares of Series C and Series D Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation which must be approved by the shareholders. The Company has agreed to seek such approval. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

Patrick G. Rooney, Chairman of the Board of the Company is the son of Patrick Rooney, Director of Corporate Development of IMAGIN Diagnostic Centres, Inc. Patrick G. Rooney and John E. McConaughy, Jr. were appointed to the Board of Directors of the Company in connection with the financing with IMAGIN.

Several agreements were reached involving option and warrants contracts for the purchase of common stock of the Company.

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- The Company agreed to exchange 917,068 outstanding options currently held by its employees for new options that are exercisable for the purchase of common stock at a price of \$0.02 per share. The new options issued to the employees are subject to four year vesting in equal monthly installments. This re-pricing will require the Company to apply the variable accounting rules established in Interpretation No. 44 of the Financial Accounting Standards Board ("FIN 44") to these options and record changes in compensation based upon movements in the stock price. The Company recognized \$13,000 in compensation expense in 2004, in accordance with the variable accounting rules established in FIN 44. The market value of the company's common stock increased to \$0.12 per share at December 31, 2004, resulting in an intrinsic value of \$0.10 per share.
- The Company agreed to re-price the outstanding warrants currently held by its President & CEO for the purchase of 3,500,000 shares of common stock at \$0.02 per share. The Company recognized \$350,000 in compensation expense in 2004, in accordance with the variable accounting rules established in FIN 44. The market value of the Company's common stock increased to \$0.12 per share at December 31, 2004, resulting in an intrinsic value of \$0.10 per share. The Company will record changes in compensation based upon movements in the stock price.
- The Company agreed to issue a new warrant to its President & CEO for the purchase of 4,000,000 shares of common stock at \$0.02 per share.
- The Company agreed to re-price outstanding warrants for the purchase of 9,150,000 shares of common stock. These warrants have been surrendered and new warrants will be issued to the same third party holders for the purchase of 4,575,000 shares of common stock at \$0.02 per share. New warrants for the purchase of 4,575,000 shares of common stock at \$0.02 per share (the remaining half of the surrendered warrants) will also be issued to IMAGIN.

In connection with the financing, IMAGIN entered into an additional agreement to purchase an aggregate of 10 PET scanners at a purchase price of \$1,300,000 each. As a result of the regulatory difficulties encountered in connection with attempts to import and use scanners in Canada, the parties have since agreed to terminate IMAGIN's obligation to purchase these scanners.

New Accounting Pronouncements

In December 2004, the Financial Accounting Standards Board (FASB) issued Statement of Financial Accounting Standards (SFAS) No. 123 (revised 2004), "Share-Based Payment" (SFAS No. 123R). SFAS No. 123R requires companies to recognize an expense for the value of employee stock-based compensation. Cost of the Company's stock option awards will be measured at fair value on the awards grant date, based on the estimated number of awards that are expected to vest. Companies are to select from two transition methods. The Company is currently evaluating the two transition methods for adopting SFAS No. 123R. SFAS No. 123R is effective for the Company for interim and annual periods beginning after December 15, 2005. The Company's existing pro-forma disclosure presents the approximate impact of SFAS No. 123R had it been adopted in the periods presented.

Critical Accounting Policies

In response to the Securities and Exchange Commission's Release No. 33-8040, "Cautionary Advice Regarding Disclosure About Critical Accounting Policies," we have identified critical accounting policies based upon the significance of the accounting policy to our overall financial statement presentation, as well as the complexity of the accounting policy and our use of estimates and subjective assessments. We have concluded our critical accounting policies are as follows:

Inventory

Inventories are stated at the lower of cost or market and include material, labor and overhead. Cost is determined using the first-in, first-out (FIFO) method of inventory valuation.

Revenue Recognition

Revenues from POSICAM™ system contracts are recognized when all significant costs have been incurred and the system has been shipped to the customer. Revenues from maintenance contracts are recognized over the term of the contract. Service revenues are recognized upon performance of the services.

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Information Regarding and Factors Affecting Forward Looking Statements

The Company is including the following cautionary statement in this Annual Report on Form 10-KSB to make applicable and take advantage of the safe harbor provision of the Private Securities Litigation Reform Act of 1995 for any forward looking statements made by, or on behalf of the Company. Forward looking statements include statements concerning plans, objectives, goals, strategies, future events or performance and underlying assumptions and other statements which are other than statements of historical facts. Certain statements contained herein are forward looking statements and, accordingly, involve risks and uncertainties which could cause actual results or outcomes to differ materially from those expressed in the forward looking statements.

The Company's expectations, beliefs and projections are expressed in good faith and are believed by the Company to have a reasonable basis, including without limitations, management's examination of historical operating trends, data contained in the Company's records and other data available from third parties, but there can be no assurance that management's expectations, beliefs or projections will result or be achieved or accomplished. In addition to other factors and matters discussed elsewhere herein, the following are important factors that, in the view of the Company, could cause actual results to differ materially from those discussed in the forward looking statements: the ability of the Company to attain widespread market acceptance of its POSICAM™ systems; the ability of the Company to obtain acceptable forms and amounts of financing to fund future operations; demand for the Company's services; and competitive factors. The Company disclaims any obligation to update any forward looking statements to reflect events or circumstances after the date hereof.

Item 7. Financial Statements

The required Financial Statements and the notes thereto are contained in a separate section of this report beginning with the page following the signature page.

Item 8. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

Ham, Langston & Brezina, L.L.P. has been the Company's principal independent accountants since 1997. No disagreements exist between the Company and Ham, Langston & Brezina, L.L.P. on any matters of accounting principles or practices, financial statement disclosure, or auditing scope or procedure.

Item 8A. Controls and Procedures

As of December 31, 2004, the Company carried out an evaluation, under the supervision and with the participation of the Company's management, including the Company's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of the Company's disclosure controls and procedures (as defined in Exchange Act Rule 13a-15(e) and Rule 15d-15(e)). Based upon that evaluation, the Company's Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures are effective at a reasonable level in timely alerting them to material information relating to the Company that is required to be included in the Company's periodic filings with the Securities and Exchange Commission. There have been no changes in the Company's internal controls over financial reporting that occurred during the Company's most recent fiscal quarter that has materially affected or is reasonably likely to materially affect, the Company's internal control over financial reporting.

The Company's management, including the Chief Executive Officer and Chief Financial Officer, do not expect that the Company's disclosure controls or internal controls will prevent all error and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control

system are met due to numerous factors, ranging from errors to conscious acts of an individual, or individuals acting together. In addition, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in a cost-effective control system, misstatements due to error and/or fraud may occur and not be detected.

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FY 2004POSITRON CORPORATIONFORM 10-KSB**Item 8B. Other Information**

None.

PART III**Item 9. Directors, Executive Officers, Promoters and Control Persons;
Compliance with Section 16(a) of the Exchange Act****DIRECTORS AND EXECUTIVE OFFICERS**

The directors, executive officers and key employees of the Company as of February 28, 2005 consist of the following individuals:

| <u>Name</u> | <u>Age</u> | <u>Position</u> |
|---------------------------|------------|--|
| Patrick G. Rooney | 42 | Chairman of the Board (appointed July 26, 2004) |
| Gary H. Brooks | 56 | Director, President, Chief Executive Officer, Chief Financial Officer and Secretary (appointed CEO effective February 1, 2002) |
| Sachio Okamura | 52 | Director (appointed April 1, 2001) |
| Mário Leite da Silva | 32 | Director (appointed May 10, 2002) |
| John E. McConnaughey, Jr. | | Director (appointed July 26, 2004) |
| David S. Yeh | 44 | Executive Vice President, Sales & Marketing (appointed effective July 2004) |

Patrick G. Rooney has served as Chairman of the Company since July 26, 2004. Since March 2003, Mr. Rooney has been the Managing Director of Solaris Opportunity Fund L.P., an investing/trading hedge fund. Mr. Rooney is also acting Chairman of Cipher Holding Corp. Through years 1985 - 2000, Patrick G. Rooney and/or Rooney Trading was a member of The Chicago Board of Options Exchange, The Chicago Board of Trade and The Chicago Mercantile Exchange. In September 1998 through March 2003, Mr. Rooney managed Digital Age Ventures, Ltd., a venture capital investment company. Mr. Rooney attended Wagner College of New York from 1980 through 1984.

Gary H. Brooks has served as a director since January 22, 1999, on which date he was also appointed as President, Secretary and Acting Chief Financial Officer of the Company. In February 2002, Mr. Brooks was appointed Chief Executive Officer of the Company. Prior to joining the Company on a full-time basis, Mr. Brooks served as Vice President of Finance and Administration, Chief Financial Officer and Secretary for Imatron since December 1993. Prior to joining Imatron, he was Chief Financial Officer and Director for five years at Avocet, a privately-held sports electronics manufacturer located in Palo Alto, California. Mr. Brooks received his B.A. in Zoology in 1971 from the University of California, Berkeley, and an M.B.A. in Finance and Accounting in 1973 from the University of California, Los Angeles.

Mário Filipe Moreira Leite da Silva was appointed as a Director of Positron Corporation in May of 2002. Mr. da Silva currently holds the position of Director of Financim - Financiamentos Molbilários, S.G.P.S., S.A. From May 2001 to April 2002, he served as Finance and Organization Director for Imediata Group. Mr. da Silva served as

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Controller/Finance Director with Grundig from October 1999 to May 2001. From July 1998 to September 1999, he was Team Manager for the auditing department at Price Waterhouse Coopers. From October 1996 to June 1998, Mr. da Silva served as a finance auditor and economic consultant for Price Waterhouse. Mr. da Silva began his professional career with BNC - Banco Nacional de Crédito Imobiliário from September 1995 to October 1996. Mr. da Silva received a Degree in Economy from the Faculty of Economy, Porto University, and a Masters Degree in Entrepreneurial Sciences, Speciality in Finance from the Faculty of Economy, Porto University.

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Sachio Okamura has served as a director since his appointment to the Board of the Company on April 1, 2001. Mr. Okamura has performed bio-medial consulting services for Okamura Associates, Inc. from 1993 through the present date. These consulting services have included regulatory, distribution, licensing, joint venture, investment, merger and acquisition activities involving businesses in the United States and Japan. Mr. Okamura was in charge of bio-medical business development for various offices of Mitsubishi Corporation from 1978 through 1993. Mr. Okamura received a BS in Biochemistry in 1975 from the University of California, Davis and a Master of International Business from the American Graduate School of International Management in 1978.

David S. Yeh joined the Company as Executive Vice President of Sales and Marketing in July 2004. From 1997 to 2004, Mr. Yeh served as National Sales and Marketing Manager and Executive Director of Sales for Nidek, Inc. Mr. Yeh has over twenty years of medical device sales and marketing experience. In addition, he has over ten years of direct management experience in growing revenue and strategic positioning. Mr. Yeh received a B.A. in Economics from the University of California, Los Angeles.

Ross K. Hartz served as Vice President of Engineering until his death on March 14, 2004.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Securities Exchange Act of 1934, as amended, requires the Company's executive officers and directors, and persons who own more than 10% of the Company's Common Stock to file reports of ownership on Form 3 and changes in ownership on Form 4 or Form 5 with the Securities and Exchange Commission (the "SEC"). Such executive officers, directors and 10% stockholders are also required by SEC rules to furnish the Company with copies of all Section 16(a) forms they file. Based solely upon its review of copies of such forms received by it, or on written representations from certain reporting persons that no Forms 5 were required for those persons, the Company believes that following reports of Forms 3 and 4 were not timely filed: Patrick G. Rooney and John E. McConaughy, Jr. filed late one Form 3 reporting one transaction each.

Code of Ethics

The Board of Directors has adopted a Code of Business Conduct and Ethics that applies to all of our employees, officers and directors, and a Code of Ethics for principal executive officers and principal financial officers. Copies of these codes are attached as an exhibit to this report.

Audit Committee

The Company's full Board of Directors acts as the Company's audit committee. The Board has determined that Mario Leite da Silva is an "audit committee financial expert" as defined in Item 401(e) of Regulation S-B and that Mr. da Silva is "independent" as defined in item 7(d)(B)(iv) of Schedule 14A of the Exchange Act of 1934.

Item 10. Executive Compensation

The following tables set forth certain information with respect to compensation paid by the Company and certain information regarding stock options issued to certain of the individuals who have acted as executive officers of the Company during 2004, 2003 and 2001.

FY 2004POSITRON CORPORATIONFORM 10-KSB**Summary Compensation Table**

| Name and Principal Position | Fiscal Year | Salary (\$) (a) | Bonus ^(a) | Other Annual Compensation | Restricted Stock Awards | Options/SARs | LTIP Payout | All Other Compensation ^(b) |
|---|-------------|-----------------|----------------------|---------------------------|-------------------------|--------------|-------------|---------------------------------------|
| Gary H. Brooks ^(c) , President, Chief Executive Officer and Secretary | 2004 | \$ 223,000 | -- | -- | -- | -- | -- | \$ -- |
| | 2003 | \$ 265,000 | -- | -- | -- | 500,000 | -- | \$ 1,851 |
| | 2002 | \$ 223,000 | -- | -- | -- | -- | -- | \$ 5,177 |
| David S. Yeh ^(d) Exec. V.P. Sales & Marketing | 2004 | \$ 119,000 | -- | -- | -- | -- | -- | \$ -- |
| Wayne E. Webster ^(e) Vice President Marketing, Sales, & Service | 2002 | \$ 217,000 | -- | -- | -- | -- | -- | \$ 3,752 |
| Ross K. Hartz ^(f) Vice President of Engineering | 2004 | \$ 2,000 | -- | \$ 12,000 | -- | -- | -- | \$ -- |
| | 2003 | \$ 78,000 | -- | \$ 37,000 | -- | 300,000 | -- | \$ 1,130 |
| | 2002 | \$ 143,000 | \$ 23,000 | -- | -- | -- | -- | \$ 2,144 |
| Michael L. Golden ^(g) Chief Financial Officer | 2003 | \$ 40,000 | -- | -- | -- | -- | -- | \$ 531 |
| | 2002 | \$ 99,000 | -- | -- | -- | -- | -- | \$ 1,491 |

(a) Amounts shown include cash compensation earned with respect to the year shown above.

(b) Represents the Company's matching contributions to its 401(k) plan.

(c) Compensation for Mr. Brooks in 2003 includes regular compensation of \$223,000 and \$42,000 of vacation pay.

(d) This number reflects compensation paid to Mr. Yeh from the time he was hired in July 2004 through December 2004.

(e) Wayne E. Webster served as an officer of the Company through December 31, 2002.

(f) Ross K. Hartz received \$12,000 and \$37,000 in disability payments in 2004 and 2003, respectively, related to a prolonged illness.

(g) Michael L. Golden served as an officer of the Company through May 15, 2003.

Option Grants in Last Fiscal Year

The following table sets forth certain information with respect to stock options granted to each of the Company's Chief Executive Officer and the four other highest paid executive officers (the "Named Executive Officers") during the fiscal year ended December 31, 2004. In accordance with the rules of the Securities and Exchange Commission, also shown below is the potential realizable value over the term of the option (the period from the grant date to the expiration date) based on assumed rates of stock appreciation of 5% and 10%, compounded annually. These amounts are based on certain assumed rates of appreciation and do not represent the Company's estimate of future stock price. Actual gains, if any, on stock option exercises will be dependent on the future performance of the Common Stock.

| Name | Number of Shares Underlying Options Granted (1) | % of Total Options Granted to Employees in Fiscal Year (2) | Exercise Price Per Share | Expiration Date | Potential Realizable Value at Assumed Annual Rates of Stock Price Appreciation For Option Term (3) | |
|------|--|---|-----------------------------|--------------------|--|-----|
| | | | | | 5% | 10% |
| None | | | | | | |

(1) All options were granted under the Company's 1999 Employee Stock Option Plan and have exercise prices equal to the fair market value on the grant date.

(2) No new stock options were granted to employees in 2004.

(3) Pursuant to the rules of the Securities and Exchange Commission, the dollar amounts set forth in these columns are the result of calculations based on the set rates of 5% and 10%, and therefore are not intended to forecast possible future appreciation, if any, of the price of the Common Stock.

FY 2004POSITRON CORPORATIONFORM 10-KSB**Option Exercises and Holdings**

The following table provides information with respect to option exercises in fiscal 2004 by the Named Executive Officers and the value of such officers' unexercised options at December 31, 2004:

**Aggregated Option Exercises in Last Fiscal Year
and Fiscal Year-End Option Values**

| Name | Shares Acquired on Exercise (#) | Value Realized (\$) | Number of Shares Underlying Unexercised Options at Fiscal Year-End (#) | | Value of Unexercised In-the-Money Options at Fiscal Year-End (\$) (1) | |
|----------------|---|---------------------------|---|---------------|---|---------------|
| | | | Exercisable | Unexercisable | Exercisable | Unexercisable |
| Gary H. Brooks | -- | \$ -- | 72,917 | 427,083 | \$ 7,292 | \$ 42,708 |
| Ross K. Hartz | -- | \$ -- | 605,000 | -- | \$ 19,250 | \$ -- |

(1) Market value of unexercised options is based on the price of the last reported sale of the Company's Common Stock on the NASDAQ OTC Bulletin Board of \$0.12 per share on December 31, 2004 (the last trading day for fiscal 2004), minus the exercise price.

Option/Warrant Repricing for Named Executive Officers

On May 4, 2004, our board of directors approved a repricing program for certain outstanding options to purchase shares of our common stock granted under each of our stock plans. As part of the repricing program, the Company granted to Gary H. Brooks an option exercisable for 500,000 shares with an exercise price of \$0.02 per share that is subject to four year vesting in equal monthly installments. This replaces an option grant previously held by Mr. Brooks that was exercisable for 500,000 shares of common stock at a price of \$0.05 per share. The market value of the Company's common stock closed at \$0.02 per share at May 21, 2004.

The Company also agreed to reprice outstanding warrants held by Mr. Brooks for the purchase of 3,500,000 shares of common stock at \$0.02 per share. The warrants previously had exercise prices of \$0.30 and \$0.05 per share for 3,000,000 and 500,000 shares of common stock, respectively.

The options and warrants were repriced in consideration for Mr. Brooks efforts in connection with negotiating and completing the financing with IMAGIN Diagnostic Centres, Inc.

Compensation of Directors

Beginning January 22, 1999 through the current date, non-employee directors are not separately compensated for their services on the Board although they continue to be reimbursed for their reasonable expenses associated with attending board and committee meetings.

On and after October 6, 1999, each non-employee director is eligible to receive an initial option to purchase 25,000 shares of common stock under Positron's 1999 Non-employee Directors' Stock Option Plan upon their election or

appointment to the Board. The exercise price is equal to 85% of the fair market value of the common stock on the date of grant. In addition, so long as the Plan is in effect and there are shares available for grant, each director in service on January 1 of each year (provided the director has served continuously for at least the preceding 30 days) is eligible to receive an option to purchase 25,000 shares of common stock at an exercise price equal to 85% of the fair market value of the common stock on the date of grant. Initial options as well as annual options granted under the Plan are subject to one or two schedules, either vesting over four years or vesting fully on the date of grant. In the latter event, the common stock acquired upon exercise of such options are subject to a right of repurchase in favor of Positron which lapses in four equal annual installments, beginning on the first anniversary of the date of grant.

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Compensation Arrangements

Effective January 22, 1999, the Company entered into an employment agreement with Gary H. Brooks. Pursuant to the Agreement, he was appointed initially as President of the Company with an initial employment term ending June 15, 2000, with a rolling six month basis thereafter. From January 22, 1999 until June 15, 1999, and then from June 15, 1999 through August 31, 1999, his base salary was \$1,000 and \$3,417 per month respectively, reflecting his less than full-time commitments to the office during these periods. Effective September 1, 1999 and with his full-time assignment with the Company, his salary increased to \$185,000 on an annualized basis. In addition to participation in the Company's group benefit plans and a monthly automobile allowance, Mr. Brooks was given the opportunity to purchase for \$20,000 a warrant to purchase 3,000,000 shares of the Company's common stock exercisable at \$0.30 per share. The warrant, and the underlying common stock, are subject to the Company's repurchase right, which lapses 25% immediately and the remainder annual over the next three years. The base salary for Mr. Brooks was increased to \$205,000 effective June 15, 2000 and was increased again to \$217,000 effective January 1, 2002. The Board can terminate Mr. Brooks' employment without cause on thirty days' written notice and the payment of base salary for the remainder of the employment term or six months, whichever is greater.

Compensation Plans

Key Employee Incentive Compensation. The Company has an incentive compensation plan for certain key employees and its Chairman. The incentive compensation plan provides for annual bonus payments based upon achievement of certain corporate objectives as determined by the Company's compensation committee, subject to the approval of the board of directors. During 2004, the Company did not pay any bonus pursuant to the incentive compensation plan.

Employee Stock Option Plan. Positron's Board administers the 1999 Employee Stock Option Plan, which was adopted by the Board effective June 15, 1999. The 1999 Plan provides for the grant of options to officers, employees (including employee directors) and consultants. The administrator is authorized to determine the terms of each option granted under the plan, including the number of shares, exercise price, term and exercisability. Options granted under the plan may be incentive stock options or nonqualified stock options. The exercise price of incentive stock options may not be less than 100% of the fair market value of the common stock as of the date of grant (110% of the fair market value in the case of an optionee who owns more than 10% of the total combined voting power of all classes of Positron capital stock). Options may not be exercised more than ten years after the date of grant (five years in the case of 10% stockholders). Upon termination of employment for any reason other than death or disability, each option may be exercised for a period of 90 days, to the extent it is exercisable on the date of termination. In the case of a termination due to death or disability, an option will remain exercisable for a period of one year, to the extent it is exercisable on the date of termination. The Board has authorized up to an aggregate of 4,000,000 shares of common stock for issuance under the Employee Stock Option Plan. As of December 31, 2004, a total of 5,467,500 options have been granted under the 1999 Stock Option Plan, of which 12,500 have been exercised and 1,467,084 are outstanding, and of which 892,084 are subject to vesting and 575,000 are fully vested. As of December 31, 2004, a total of 30,188 options remain outstanding under Positron's 1994 Stock Option Plan, which was terminated effective October 6, 1999.

Non-Employee Directors' Stock Option Plan. The 1999 Non-employee Directors' Stock Option Plan provides for the automatic grant of an option to purchase 25,000 shares of common stock to non-employee directors upon their election or appointment to the Board, and subsequent annual grants also in the amount of 25,000 shares of common stock. The exercise price of the options is 85% of the fair market value of the common stock on the date of grant. The Directors' Plan is administered by the Board. Options granted under the Directors' Plan become exercisable in one of two ways: either in four equal annual installments, commencing on the first anniversary of the date of grant, or immediately but subject to the Company's right to repurchase, which repurchase right lapses in four equal annual installments, commencing on the first anniversary of the date of grant. To the extent that an option is not exercisable on the date that a director ceases to be a director of the company, the unexercisable portion terminates. The Board has

authorized up to an aggregate of 500,000 shares of common stock for issuance under the Directors' Plan. As of December 31, 2004, a total of 400,000 fully vested options have been granted and 225,000 remain outstanding under the Directors' Plan.

1999 Stock Bonus Incentive Plan. In October 1999, the Board adopted an Employee Stock Bonus Incentive Plan, which provides for the grant of bonus shares to any Positron employee or consultant to recognize exceptional service and performance beyond the service recognized by the employee's salary or consultant's fee. The Board has authorized up to an aggregate of 1,000,000 shares of common stock for issuance as bonus awards under the Stock Bonus Plan. The Stock Bonus Plan is currently administered by the Board. Each grant of bonus shares is in an amount determined by the Board, up to a maximum of the participant's salary. The shares become exercisable according to a schedule to be established by the Board at the time of grant. As of December 31, 2004, no shares of common stock have been granted under the 1999 Stock Bonus Incentive Plan.

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1999 Employee Stock Purchase Plan. A total of 500,000 shares of common stock have been reserved for issuance under Positron's Employee Stock Purchase Plan (the "Purchase Plan"), none of which has as yet been issued. The Purchase Plan permits eligible employees to purchase common stock at a discount through payroll deductions during offering periods of up to 27 months. Offering periods generally will begin on the first trading day of a calendar quarter. The initial offering period began on January 1, 2000. The price at which stock is purchased under the Purchase Plan will be equal to 85% of the fair market value of common stock on the first or last day of the offering period, whichever is lower. No shares have been issued under the Purchase Plan at December 31, 2004.

401(k) Plan. The Company has a 401(k) Retirement Plan and Trust (the "401(k) Plan") which became effective as of January 1, 1989. Employees of the Company who have completed one-quarter year of service and have attained age 21 are eligible to participate in the 401(k) Plan. Subject to certain statutory limitations, a participant may elect to have his or her compensation reduced by up to 20% and have the Company contribute such amounts to the 401(k) Plan on his or her behalf ("Deferral Contributions"). The Company makes contributions in an amount equal to 25% of the participant's Deferral Contributions up to 6% of his/her compensation ("Employer Contributions"). Additionally, the Company may make such additional contributions, as it shall determine each year in its discretion. All Deferral and Employer Contributions made on behalf of a participant are allocated to his/her individual accounts and such participant is permitted to direct the investment of such accounts.

A participant is fully vested in the current value of that portion of his/her accounts attributable to Deferral Contributions. A participant's interest in that portion of his/her accounts attributable to Employer Contributions is generally fully vested after five years of employment. Distributions under the 401(k) Plan are made upon termination of employment, retirement, disability and death. In addition, participants may make withdrawals in the event of severe hardship or after the participant attains age fifty-nine and one-half. The 401(k) Plan is intended to qualify under Section 401 of the Internal Revenue Code of 1986, so that contributions made under the 401(k) Plan, and income earned on contributions, are not taxable to participants until withdrawal from the 401(k) Plan.

The Company's contributions to the 401(k) Plan on behalf of all employees in the year ended December 31, 2003 was approximately \$18,000. The Company made no contributions in 2004.

Policy with Respect to \$1 Million Deduction Limit

It is the Company's policy, where practical, to avail itself of all proper deductions under the Internal Revenue Code. Amendments to the Internal Revenue in 1993, limit, in certain circumstances, the deductibility of compensation in excess of \$1 million paid to each of the five highest paid executives in one year. The total compensation of the executive officers did not exceed this deduction limitation in fiscal year 2004 or 2003.

Item 11. Security Ownership of Certain Beneficial Owners and Management

The following tables, based in part upon information supplied by officers, directors and principal shareholders, set forth certain information regarding the ownership of the Company's voting securities as of February 28, 2005 by (i) all those known by the Company to be beneficial owners of more than five percent of any class of the Company's voting securities; (ii) each director; (iii) each named executive officer; and (iv) all executive officers and directors of the Company as a group. Unless otherwise indicated, each of the shareholders has sole voting and investment power with respect to the shares beneficially owned, subject to community property laws where applicable.

Security Ownership of Certain Beneficial Owners^(a)

| Name and Address of Beneficial Owner | Number of Shares of Common Stock | % of Outstanding Common Stock ^(b) |
|--------------------------------------|-------------------------------------|---|
|--------------------------------------|-------------------------------------|---|

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| | | |
|---------------------------------|----------------|-----------|
| Gary H. Brooks | 7,664,583 (c) | 12.6% |
| IMAGIN Diagnostic Centres, Inc. | 91,575,000 (d) | 63.3% (e) |

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- (a) Security ownership information for beneficial owners is taken from statements filed with the Securities and Exchange Commission pursuant to Sections 13(d), 13(g) and 16(a) and information made known to the Company.
- (b) Based on 53,185,803 common shares outstanding on February 28, 2005.
- (c) Includes 50,000 shares owned directly and 7,500,000 and 114,583 shares that may be acquired pursuant to warrants and stock options, respectively, that are or will become exercisable within 60 days of February 28, 2005. Mr. Brooks can be contacted through the Houston, Texas office.
- (d) Includes 87,000,000 shares issuable upon the conversion of 10% secured convertible notes into Series C and D Preferred Stock, which is in turn convertible into common stock and 4,575,000 shares that may be acquired pursuant to warrants that are or will become exercisable within 60 days of February 28, 2005. The address for IMAGIN is 5160 Yonge Street, Suite 300, Toronto, Ontario, M2N 6L9.
- (e) Full convertibility of the shares of Series C and Series D Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation, which must be approved by the shareholders. The percentage of outstanding common stock assumes full conversion of the 10% secured convertible notes into common stock and is based on the Company's current outstanding shares of common stock.

| Name and Address of Beneficial Owner | Number of Shares of Series A Preferred | % of Outstanding Series A Preferred Stock (a) |
|--|--|--|
| Fleet Securities 26 Broadway, NY, NY 10004 | 51,032 | 10.0% |
| Anthony J. Cantone 675 Line Road, Aberdeen, NJ 07747 | 50,000 | 9.8% |
| Jamscor, Inc. 170 Bloor St. W, #804, Toronto, Ontario, Canada M5S 179 | 50,000 | 9.8% |
| Morgan Instruments, Inc. 4382 Glendale-Milford Rd., Cincinnati, OH 45242 | 41,666 | 8.2% |
| Richard E. Stites RR 13 Box 356, Bloomington, IL 61704 | 33,333 | 6.5% |
| John H. Wilson 6309 Desco Dr., Dallas, TX 75225 | 33,333 | 6.5% |

- (a) Based on 510,219 Series A Preferred Shares outstanding on February 28, 2005.

Security Ownership of Directors and Executive Officers

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The following table presents the security ownership of the Company's Directors and Named Executive Officers as of February 28, 2005:

| Title of Class | Name of Beneficial Owner | Beneficial Ownership ^(aa) | Percent of Class ^(bb) |
|----------------|---|--------------------------------------|----------------------------------|
| Common | Gary H. Brooks | 7,664,583(cc) | 12.6% |
| Common | Sachio Okamura | 125,000(dd) | * |
| Common | Mário Leite da Silva | 100,000(ee) | * |
| Common | Patrick G. Rooney | 50,000(ff) | * |
| Common | John E. McConnaughy, Jr. | 50,000(gg) | * |
| Common | All Directors and Executive Officers as a Group | 7,989,583 | 13.1% |

* Does not exceed 1% of the referenced class of securities.

(aa) Ownership is direct unless indicated otherwise.

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- (bb) Calculation based on 53,185,803 common shares outstanding as of February 28, 2005.
- (cc) Includes 50,000 shares owned directly and 7,500,000 shares and 114,583 shares that may be acquired pursuant to warrants and stock options, respectively, that are or will become exercisable within 60 days of February 28, 2005.
- (dd) Includes 125,000 shares that may be acquired pursuant to options that are or will become exercisable within 60 days of February 28, 2005.
- (ee) Includes 100,000 shares that may be acquired pursuant to options that are or will become exercisable within 60 days of February 28, 2005.
- (ff) Includes 50,000 shares that may be acquired pursuant to options that are or will become exercisable within 60 days of February 28, 2005.
- (gg) Includes 50,000 shares that may be acquired pursuant to options that are or will become exercisable within 60 days of February 28, 2005.

All officers and directors of the Company can be contacted through the Houston, Texas office.

The following table summarizes share and exercise information about the Company's equity compensation plans as of December 31, 2004.

| Plan Category | Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights | Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights | Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities included in 1 st column) |
|--|---|---|--|
| Equity Compensation Plans Approved by Security Holders (1) | 1,722,272 | \$0.12 | 4,265,228 ⁽²⁾ |
| Equity Compensation Plans Not Approved by Security Holders | 0 | -- | 0 |
| TOTAL | 1,722,272 | \$0.12 | 4,265,228 |

(1) Consists of 1999 Stock Option Plan, the 1999 Non-Employee Directors' Stock Option Plan, the 1999 Stock Bonus Incentive Plan, and the 1999 Employee Stock Purchase Plan, each as amended to date.

(2) Includes 2,490,228 shares available for issuance under the 1999 Stock Option Plan, 275,000 shares available for issuance under the 1999 Non-Employee Directors' Plan, 1,000,000 shares available for issuance under the 1999 Stock Bonus Incentive Plan, and 500,000 shares available under the 1999 Employee Stock Purchase Plan.

Please see the discussion set forth above in Item 10 for a description of the material terms of the Company's equity compensation plans.

Item 12. Certain Relationships and Related Transactions

Imatron Inc./GE Transaction

Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company's obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company's future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

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As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at last four quarters.

IMAGIN Transaction

In May 2004, the Company entered into a series of agreements with IMAGIN pursuant to which IMAGIN agreed to provide over the next seven months an aggregate \$2,000,000 of financing to the Company. When the financing is completed and if all the conversion rights are exercised, IMAGIN will control approximately one-half of the Company's common stock.

In the first stage of the financing, IMAGIN agreed to purchase an aggregate of \$700,000 face amount of the Company's 10% secured convertible promissory notes (see note 5). As of December 31, 2004, IMAGIN has purchased \$700,000 of these notes. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company's common stock.

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. IMAGIN agreed to purchase these notes over a six and a half month period, commencing July 15, 2004. As of December 31, 2004, IMAGIN has purchased \$850,000 of these notes. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock.

Pursuant to the terms of the agreements, the Company granted to IMAGIN a security interest in all of its assets to secure payment of the convertible promissory notes. Full convertibility of the shares of Series C and Series D Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation which must be approved by the shareholders. The Company has agreed to seek such approval. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

Patrick G. Rooney, Chairman of the Board of the Company is the son of Patrick Rooney, Director of Corporate Development of IMAGIN Diagnostic Centres, Inc. Patrick G. Rooney was appointed to the Board of Directors of the Company in connection with the financing with IMAGIN.

Item 13. Exhibits

Exhibits:

- 3.1 Articles of Incorporation of the Registrant (incorporated herein by reference to Exhibit 3.1 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 3.2 By-laws of the Registrant, as amended (incorporated herein by reference to Exhibit 3.2 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).

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- 4.1 Specimen Stock Certificate (incorporated herein by reference to Exhibit 4.1 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1994).
- 4.2 Form of Redeemable Warrant (included as part of Exhibit 4.5)
- 4.3 Statement of Designation Establishing Series A 8% Cumulative Convertible Redeemable Preferred Stock of Positron Corporation, dated February 28, 1996 (incorporated herein by reference to Exhibit 4.3 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).

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- 4.4 Warrant Agreement dated as of February 29, 1996, between Positron Corporation and Continental Stock Transfer & Trust Company (incorporated herein by reference to Exhibit 4.4 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 4.5 Specimen Redeemable Warrant Certificate to Purchase Shares of common stock (incorporated herein by reference to Exhibit 4.5 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 4.6 Stock Purchase Warrant dated as of February 7, 1996 issued by Positron Corporation to Boston Financial & Equity Corporation (incorporated herein by reference to Exhibit 4.6 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 4.7 Statement of Designation Establishing Series B 8% Cumulative Convertible Redeemable Preferred Stock of Positron Corporation, dated July 9, 1996.
- 4.8 Form of Warrant Agreement dated as of July 10, 1996, between Positron Corporation and Brooks Industries Profit Sharing Plan.
- 4.9 Warrant Agreement dated as of June 15, 1999 between Positron Corporation and Gary Brooks (incorporated herein by reference to Exhibit 4.9 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 4.10 Stock Purchase Warrant dated as of June 15, 1999 issued by Positron Corporation to Gary H. Brooks (incorporated herein by reference to Exhibit 4.10 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 4.11 Warrant Agreement dated as of June 15, 1999 between Positron Corporation and S. Lewis Meyer (incorporated herein by reference to Exhibit 4.11 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 4.12 Stock Purchase Warrant dated as of June 15, 1999 issued by Positron Corporation to S. Lewis Meyer (incorporated herein by reference to Exhibit 4.12 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 4.13 Stock Purchase Warrant dated as of September 20, 1999 issued by Positron Corporation to Uro-Tech, Ltd. as replacement for 1995 Warrant (incorporated herein by reference to Exhibit 4.13 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 4.14 Form of Stock Purchase Agreement executed in connection with July 1999 Private Placement (incorporated by reference to Exhibit 5.1 to the Company's Report on 8-K dated August 18, 1999.)
- 4.15 Form of common stock Purchase Warrant in connection with July 1999 Private Placement (incorporated by reference to Exhibit 5.2 to the Company's Report on 8-K dated August 18, 1999.)
- 4.16 Statement of Designation Establishing Series C Preferred Stock of Positron Corporation dated May 21, 2004 (incorporated by reference to Exhibit 4.1 to the Company's Report on 8-K dated May 21, 2004)
- 4.17 Statement of Designation Establishing Series D Preferred Stock of Positron Corporation dated May 21, 2004 (incorporated by reference to Exhibit 4.2 to the Company's Report on 8-K dated May 21, 2004)
- 4.18 Statement of Designation Establishing Series E Preferred Stock of Positron Corporation dated February 28, 2005.
- 10.1 Lease Agreement dated as of July 1, 1991, by and between Lincoln National Pension Insurance Company and Positron Corporation (incorporated herein by reference to Exhibit 10.1 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.2 Agreement dated as of March 1, 1993, by and between Positron Corporation and Oxford Instruments (UK) Limited (incorporated herein by reference to Exhibit 10.2 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.3 International Distribution Agreement dated as of November 1, 1992, by and between Positron Corporation and Batec International, Inc. (incorporated herein by reference to Exhibit 10.3 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.4† 1994 Incentive and Nonstatutory Option Plan (incorporated herein by reference to Exhibit A to Company's Proxy Statement dated May 2, 1994).

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- 10.5† Amended and Restated 1987 Stock Option Plan (incorporated herein by reference to Exhibit 10.5 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.6† Retirement Plan and Trust (incorporated herein by reference to Exhibit 10.6 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).

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- 10.7 Amended and Restated License Agreement dated as of June 30, 1987, by and among The Clayton Foundation for Research, Positron Corporation, K. Lance Gould, M.D., and Nizar A. Mullani (incorporated herein by reference to Exhibit 10.7 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.8 Clarification Agreement to Exhibit 10.7 (incorporated herein by reference to Exhibit 10.8 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.9 Royalty Assignment dated as of December 22, 1988, by and between K. Lance Gould and Positron Corporation (incorporated herein by reference to Exhibit 10.10 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.10 Royalty Assignment dated as of December 22, 1988, by and between Nizar A. Mullani and Positron Corporation (incorporated herein by reference to Exhibit 10.11 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.11 Royalty Assignment dated as of December 22, 1988, by and between The Clayton Foundation and Positron Corporation (incorporated herein by reference to Exhibit 10.12 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.12† Stock Purchase Warrant dated October 31, 1993, issued to Gary B. Wood (incorporated herein by reference to Exhibit 10.15 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.13 Amendment No. 1 to Exhibit 10.22 (incorporated herein by reference to Exhibit 10.23 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.14† Consulting Agreement dated as of January 15, 1993, by and between Positron Corporation and K. Lance Gould, M.D. (incorporated herein by reference to Exhibit 10.24 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.15 Stock Purchase Warrant dated February 25, 1993, issued to K. Lance Gould (incorporated herein by reference to Exhibit 10.26 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.16† Consulting Agreement dated February 23, 1995, effective December 15, 1994, by and between Positron Corporation and F. David Rollo, M.D. Ph.D., FACNP.
- 10.17† Consulting Agreement dated as of January 15, 1993, by and between Positron Corporation and Nizar A. Mullani (incorporated herein by reference to Exhibit 10.31 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.18† Consulting Agreement dated as of November 12, 1993, by and between Positron Corporation and OmniMed Corporation (incorporated herein by reference to Exhibit 10.35 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.19 Contract No. 1318 dated as of December 30, 1991, by and between Positron Corporation and The University of Texas Health Science Center at Houston (incorporated herein by reference to Exhibit 10.39 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.20† Letter Agreement dated July 30, 1993 between Positron Corporation and Howard Baker (incorporated herein by reference to Exhibit 10.52 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.21 Technology Transfer Agreement dated as of September 17, 1990, by and between Positron Corporation and Clayton Foundation for Research (incorporated herein by reference to Exhibit 10.54 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.22 Stock Purchase Warrant dated as of October 31, 1993 issued to Gerald Hillman (incorporated herein by reference to Exhibit 10.56 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.23 Stock Purchase Warrant dated as of October 31, 1993 issued to The Dover Group (incorporated herein by reference to Exhibit 10.57 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.24 Stock Purchase Warrant dated as of October 31, 1993 issued to John Wilson (incorporated herein by reference to Exhibit 10.63 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.25†

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Stock Purchase Warrant dated as of October 31, 1993 issued to Robert Guezuraga (incorporated herein by reference to Exhibit 10.64 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).

10.26

Stock Purchase Warrant dated as of October 31, 1993 issued to Richard Ronchetti (incorporated herein by reference to Exhibit 10.65 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).

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- 10.27 Form of Amended and Restated Registration Rights Agreement dated as of November 3, 1993, by and among Positron and the other signatories thereto (1993 Private Placement) (incorporated herein by reference to Exhibit 10.73 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.28 Registration Rights Agreement dated as of July 31, 1993, by and among Positron and the other signatories thereto (other than the 1993 Private Placement) (incorporated herein by reference to Exhibit 10.74 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.29 Software Licenses dated as of March 1, 1993, by and between Positron Corporation and Oxford Instruments (UK) Limited (incorporated herein by reference to Exhibit 10.81 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.30 Distribution Agreement dated as of June 1, 1993, by and between Positron Corporation and Elscint, Ltd. (incorporated herein by reference to Exhibit 10.82 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.31† Employment Agreement dated as of August 19, 1993, by and between Positron Corporation and Richard E. Hitchens (incorporated herein by reference to Exhibit 10.83 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.32† Employment Agreement dated as of August 19, 1993, by and between Positron Corporation and Howard R. Baker (incorporated herein by reference to Exhibit 10.84 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.33 Amended and Restated Warrant Agreement dated as of April 14, 1994, by and between Positron Corporation and Continental Stock Transfer and Trust Company (including form of Warrant Certificate).
- 10.34 First Amendment to Amended and Restated Registration Rights Agreement, dated as of November 19, 1993, by and among Positron Corporation and the other signatories thereto (incorporated herein by reference to Exhibit 10.91 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.35 Agreement made and entered into as of October 31, 1993, by and between Positron Corporation and Nizar A. Mullani (incorporated herein by reference to Exhibit 10.97 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.36 Agreement made and entered into as of October 31, 1993, by and between Positron Corporation and K. Lance Gould (incorporated herein by reference to Exhibit 10.98 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.37 Agreement made and entered into as of November 15, 1993, by and between Positron Corporation and Nizar A. Mullani (incorporated herein by reference to Exhibit 10.100 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.38 Agreement made and entered into as of November 15, 1993, by and between Positron Corporation and K. Lance Gould (incorporated herein by reference to Exhibit 10.101 to the Company's Registration Statement on Form SB-2 (File No. 33-68722)).
- 10.39 First Amendment made and entered as of January 25, 1994, by and between Emory University d/b/a Crawford Long Hospital and Positron Corporation (incorporated herein by reference to Exhibit 10.102 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1993).
- 10.40† Employment Agreement dated January 1, 1996 by and between Werner J. Haas, Ph.D. and Positron Corporation (incorporated herein by reference to Exhibit 10.40 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.41 Loan and Security Agreement made as of November 14, 1995, between Positron Corporation and Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.41 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.42 First Modification and Extension Agreement made as of January 3, 1996, by Positron Corporation and Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.42 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.43

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Second Modification and Extension Agreement made as of February 26, 1996 by Positron Corporation and Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.43 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).

10.44 Uro-Tech Loan Conversion Agreement dated as of November 14, 1995, between Positron Corporation and Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.44 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).

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- 10.45 Promissory Note dated September 14, 1995, in the principal amount of \$1,500,000 payable to Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.45 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.46 Promissory Note dated September 14, 1995, in the principal amount of \$1,000,000 payable to Uro-Tech, Ltd. (incorporated herein by reference to Exhibit 10.46 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.47 Revolving Finance agreement with Boston Financial & Equity Corporation (incorporated herein by reference to Exhibit 10.47 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.48 Security Agreement Boston Financial & Equity Corporation (incorporated herein by reference to Exhibit 10.48 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.49 Supplement to Security Agreement Security Interest in Inventory (incorporated herein by reference to Exhibit 10.49 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.50 Inter-Creditor Agreement (incorporated herein by reference to Exhibit 10.50 of the Company's Annual Report on Form 10-KSB for the year ended December 31, 1995).
- 10.51 Loan Agreement between Positron Corporation and ProFutures Bridge Capital Fund, L.P. dated November 1, 1996 (incorporated by reference to Exhibit 10.51 to the Company's Report on Form 10-KSB for the year ended December 1996).
- 10.52 Promissory Note dated November 14, 1996, in the principal amount of \$1,400,000 payable to ProFutures Bridge Capital Fund, L.P. (incorporated by reference to Exhibit 10.52 to the Company's Report on Form 10-KSB for the year ended December 1996).
- 10.53 InterCreditor Agreement dated November 14, 1996 among Uro-Tech, Ltd., Boston Financial & Equity Corporation and ProFutures Bridge Capital Fund, L.P. (incorporated by reference to Exhibit 10.53 to the Company's Report on Form 10-KSB for the year ended December 1996).
- 10.54 Amendment to BF&E loan (incorporated by reference to Exhibit 10.54 to the Company's Report on Form 10-KSB for the year ended December 1996).
- 10.55 Amendment to Uro-Tech loan (incorporated by reference to Exhibit 10.55 to the Company's Report on Form 10-KSB for the year ended December 1996).
- 10.56 Acquisition Agreement between General Electric Company and Positron Corporation dated July 15, 1996 (incorporated by reference to Exhibit 10.56 to the Company's Report on Form 10-KSB for the year ended December 31, 1996).
- 10.57 Loan Agreement between Positron Corporation and Imatron, Inc.
- 10.58 Sales and Marketing Agreement With Beijing Chang Feng Medical (incorporated by reference to Exhibit 10.58 to the Company's Report on Form 10KSB/A-Z for the year ended December 31, 1996).
- 10.59 Stock Purchase Agreement between Positron Corporation and Imatron, Inc. (incorporated hereby by reference to Annex A to the Company's Proxy Statement dated December 18, 1998).
- 10.60 Promissory Note from Positron Corporation to Imatron, Inc.
- 10.61† Employment Agreement dated as of January 22, 1999 by and between Positron Corporation and Gary H. Brooks (incorporated by reference to Exhibit 10.61 to the Company's Registration Statement on Form SB-2 (file No. 333-30316)).
- 10.62 Agreement and Release dated as of November 30, 1999 by and among Positron Corporation, K. Lance Gould and University of Texas Medical Center (incorporated herein by reference to Exhibit 10.62 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.63† 1999 Stock Option Plan (incorporated herein by reference to Exhibit 10.63 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.64† 1999 Non-Employee Directors' Stock Option Plan (incorporated herein by reference to Exhibit 10.64 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).

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- 10.65† 1999 Stock Bonus Incentive Plan (incorporated herein by reference to Exhibit 10.65 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.66† 1999 Employee Stock Purchase Plan (incorporated herein by reference to Exhibit 10.66 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.67 Stock Purchase Warrant dated September 1, 1999 issued by Positron to S. Okamura and Associates, Inc. (incorporated herein by reference to Exhibit 10.67 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).

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- 10.68 Stock Purchase Warrant dated August 18, 1999 issued by Positron to Morris Holdings Ltd. (incorporated herein by reference to Exhibit 10.68 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.69 Stock Purchase Warrant dated January 20, 2000 issued by Positron to Vistula Finance Limited (incorporated herein by reference to Exhibit 10.69 to the Company's Registration Statement on Form SB-2 (File No. 333-30316)).
- 10.70 Loan Agreement with Imatron Inc dated June 29, 2001 (incorporation herein by reference to the Company's Report on 8-K dated July 12, 2001).
- 10.71 Employment Agreement dated as of January 17, 2001 by and between Positron Corporation and Wayne E. Webster.
- 10.72 Technology Purchase Agreement, dated as of June 29, 2003, by and between General Electric Company and Positron Corporation.
- 10.73 Software License Agreement, dated as of June 29, 2003, by and between General Electric Company and Positron Corporation.
- 10.74 Agreement for Services, dated as of June 29, 2003, by and between General Electric Company and Positron Corporation.
- 10.75 Note Purchase Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, Inc. (incorporated by reference to Exhibit 10.1 to the Company's Report on 8-K dated May 21, 2004)
- 10.76 Secured Convertible Promissory Note dated May 21, 2004 in the principal amount of \$400,000 (incorporated by reference to Exhibit 10.2 to the Company's Report on 8-K dated May 21, 2004)
- 10.77 Form Secured Convertible Promissory Note in the principal amount of \$300,000 (incorporated by reference to Exhibit 10.3 to the Company's Report on 8-K dated May 21, 2004)
- 10.78 Security Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, Inc. (entered into in connection with Note Purchase Agreement) (incorporated by reference to Exhibit 10.4 to the Company's Report on 8-K dated May 21, 2004)
- 10.79 Loan Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, Inc. (incorporated by reference to Exhibit 10.5 to the Company's Report on 8-K dated May 21, 2004)
- 10.80 Security Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, Inc. (entered into in connection with Loan Agreement) (incorporated by reference to Exhibit 10.7 to the Company's Report on 8-K dated May 21, 2004)
- 10.81 Voting Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, Inc. (incorporated by reference to Exhibit 10.8 to the Company's Report on 8-K dated May 21, 2004)
- 10.82 Registration Rights Agreement dated May 21, 2004 between Positron and IMAGIN Diagnostic Centres, inc. (incorporated by reference to Exhibit 10.9 to the Company's Report on 8-K dated May 21, 2004)
- 10.83 Note Purchase Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund., L.P.
- 10.84 Secured Convertible Promissory Note dated March 7, 2005 in the principal amount of \$200,000 in favor of Solaris Opportunity Fund, L.P.
- 10.85 Security Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund, L.P.
- 10.86 Registration Rights Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund, L.P.
- 14.1 Code of Business Conduct and Ethics
- 24.1 Powers of Attorney (included on signature page hereto)
- 31.1 Certification of Periodic Financial Report Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002*
- 32.1 Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002#

† Management contract or compensatory plan or arrangement identified pursuant to Item 13(a).

* Filed herewith

Furnished herewith

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Item 14. Principal Accountant Fees and Services

The following table shows the fees paid or accrued by the Company for the audit and other services provided by Ham, Langston & Brezina, L.L.P. for fiscal 2004 and 2003.

| | Fiscal 2004 | Fiscal 2003 |
|--------------------|-------------|-------------|
| Audit fees (1) | \$ 39,312 | \$ 39,343 |
| Audit-related fees | \$ --- | \$ --- |
| Tax fees (2) | \$ 3,500 | \$ 3,500 |
| All other fees | \$ 500 | \$ --- |

(1) Audit fees represent fees for professional services provided in connection with the audit of our financial statements and review of our quarterly financial statements and audit services provided in connection with other statutory or regulatory filings.

(2) For fiscal 2004 and 2003, respectively, tax fees principally included tax compliance fees of \$3,500 and \$3,500.

All audit related services, tax services and other services are and were pre-approved by the Company's Board of Directors, which concluded that the provision of such services by Ham, Langston & Brezina, L.L.P. was compatible with the maintenance of that firm's independence in the conduct of its auditing functions.

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SIGNATURES

In accordance with Section 13 or 15(d) of the Exchange Act, the Registrant caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

POSITRON CORPORATION

Date: March 30, 2005

By: /s/ Gary H. Brooks
Gary H. Brooks
CEO & CFO

POWER OF ATTORNEY

Each person whose signature appears below hereby constitutes and appoints Gary H. Brooks, his attorney-in-fact, with the power of substitution, for him in any and all capacities, to sign any amendments to this Report on Form 10-KSB, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting to said attorney-in-fact, or his substitute or substitutes, the power and authority to perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact, or his substitute or substitutes, may do or cause to be done by virtue hereof.

In accordance with the Exchange Act, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

/s/ Patrick G. Rooney
Patrick G. Rooney
Chairman of the Board

March 30, 2005

/s/ Gary H. Brooks
Gary H. Brooks
CEO & CFO

March 30, 2005

/s/ Sachio Okamura
Sachio Okamura
Director

March 30, 2005

Mário Leite da Silva

March 30, 2005

Director

/s/ John E. McConnaughy, Jr.
John E. McConnaughy, Jr.
Director

March 30, 2005

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POSITRON CORPORATION

**FINANCIAL STATEMENTS
WITH REPORT OF INDEPENDENT ACCOUNTANTS
for the years ended December 31, 2004 and 2003**

FY 2004

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders
Positron Corporation

We have audited the accompanying balance sheet of Positron Corporation as of December 31, 2004 and the related statements of operations, stockholders' equity (deficit) and cash flows for each of the two years in the period ended December 31, 2004. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these 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 the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Positron Corporation as of December 31, 2004, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2004 in conformity with accounting principles generally accepted in the United States of America.

The accompanying financial statements have been prepared assuming the Company will continue as a going concern. As discussed in Note 2 to the financial statements, the Company has suffered recurring losses from operations and low inventory turnover. These factors raise substantial doubt about the Company's ability to continue as a going concern. The financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ Ham, Langston & Brezina, L.L.P.

Houston, Texas
March 3, 2005

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POSITRON CORPORATION

POSITRON CORPORATION
BALANCE SHEET
December 31, 2004
(In thousands, except share data)

ASSETS

| | |
|-----------------------------|-----------------|
| Current assets: | |
| Cash and cash equivalents | \$ 133 |
| Inventories | 836 |
| Prepaid expenses | 62 |
| Other current assets | 28 |
| Total current assets | 1,059 |
| Property and equipment, net | 156 |
| Deferred loan costs | 208 |
| Total assets | \$ 1,423 |

LIABILITIES AND STOCKHOLDERS' EQUITY

| | |
|---|-----------------|
| Current liabilities: | |
| Accounts payable, trade and accrued liabilities | \$ 1,393 |
| Customer deposits | 16 |
| Unearned revenue | 153 |
| Transaction fee payable to affiliated entity | 200 |
| Total current liabilities | 1,762 |
| Note payable to affiliated entity | 1,550 |
| Stockholders' equity (deficit): | |
| Series A Preferred Stock: \$1.00 par value; 8% cumulative, convertible, redeemable; 5,450,000 shares authorized; 510,219 shares issued and outstanding. | 510 |
| Common stock: \$0.01 par value; 100,000,000 shares authorized; 53,245,959 shares issued and 53,185,803 shares outstanding. | 532 |
| Additional paid-in capital | 55,547 |
| Subscription receivable | (30) |
| Accumulated deficit | (58,433) |
| Treasury Stock: 60,156 shares at cost | (15) |
| Total stockholders' equity (deficit) | (1,889) |
| Total liabilities and stockholders' equity | \$ 1,423 |

See notes to financial statements

FY 2004

POSITRON CORPORATION

POSITRON CORPORATION
STATEMENTS OF OPERATIONS
(In thousands, except per share data)

| | Year Ended December 31, | |
|--|-------------------------|----------|
| | 2004 | 2003 |
| Revenue: | | |
| System sales | \$ 1,150 | \$ 3,459 |
| System upgrades | 691 | 277 |
| Service and components | 939 | 1,332 |
| Total revenue | 2,780 | 5,068 |
| Costs of revenues: | | |
| System sales | 1,178 | 3,229 |
| System upgrades | 284 | 113 |
| Service, warranty and components | 321 | 684 |
| Total costs of revenues | 1,783 | 4,026 |
| Gross profit | 997 | 1,042 |
| Selling, general and administrative | 1,735 | 1,752 |
| Research and development | 401 | 671 |
| Stock based compensation | 363 | -- |
| Loss from operations | (1,502) | (1,381) |
| Other income (expenses): | | |
| Interest expense | (157) | (103) |
| Interest income | 1 | -- |
| Gain on sale of Cardiac PET Software | -- | 2,376 |
| Total other income (expense) | (156) | 2,273 |
| Net income (loss) | \$ (1,658) | \$ 892 |
| Basic and diluted income (loss) per common share | \$ (0.03) | \$ 0.02 |
| Weighted average shares outstanding | | |
| Basic | 53,186 | 57,616 |
| Diluted | 53,186 | 58,859 |

See notes to financial statements

FY 2004POSITRON CORPORATION

POSITRON CORPORATION
STATEMENTS OF STOCKHOLDERS' EQUITY (DEFICIT)
for the years ended December 31, 2004 and 2003
(In thousands, except share data)

| | Series A Preferred Stock | | Common Stock | | Additional Paid-In-Subscriptions | | Accumulated | Treasury | Total |
|---|-----------------------------|--------|--------------|--------|-------------------------------------|------------|-------------|----------|------------|
| | Shares | Amount | Shares | Amount | Capital | Receivable | Deficit | Stock | |
| Balance at December 31, 2002 | 510,219 | \$ 510 | 62,233,459 | \$ 622 | \$ 55,093 | \$ (30) | \$ (57,667) | \$ (15) | \$ (1,487) |
| Net income | -- | -- | -- | -- | -- | -- | 892 | -- | 892 |
| Shares surrendered In conjunction with Sale of Cardiac PET Software | -- | -- | (9,000,000) | (90) | 90 | -- | -- | -- | -- |
| Exercise of stock options | -- | -- | 12,500 | --- | 1 | -- | -- | -- | 1 |
| Balance at December 31, 2003 | 510,219 | 510 | 53,245,959 | 532 | 55,184 | (30) | (56,775) | (15) | (594) |
| Net Loss | -- | -- | -- | -- | -- | -- | (1,658) | -- | (1,658) |
| Compensation related to repricing of warrants and options | -- | -- | -- | -- | 363 | -- | -- | -- | 363 |
| Balance at December 31, 2004 | 510,219 | \$ 510 | 53,245,959 | \$ 532 | \$ 55,547 | \$ (30) | \$ (58,433) | \$ (15) | \$ (1,889) |

See notes to financial statements

FY 2004

POSITRON CORPORATION

POSITRON CORPORATION
STATEMENTS OF CASH FLOWS
(In thousands)

| | Year Ended December 31, | |
|---|-------------------------|---------|
| | 2004 | 2003 |
| Cash flows from operating activities: | | |
| Net income (loss) | \$ (1,658) | \$ 892 |
| Adjustments to reconcile net income (loss) to net cash used in operating activities | | |
| Gain on sale of Cardiac PET Software | -- | (2,376) |
| Compensation related to repricing of warrants and options | 363 | -- |
| Depreciation expense | 86 | 86 |
| Bad debt expense | -- | 81 |
| Amortization of loan costs | 92 | -- |
| Changes in operating assets and liabilities: | | |
| Decrease in accounts receivable | 3 | 995 |
| Decrease in inventories | 325 | 2,123 |
| Decrease in prepaid expenses | 113 | 57 |
| Decrease (increase) in other current assets | (16) | 71 |
| Increase (decrease) in accounts payable and accrued liabilities | (505) | 298 |
| Decrease in customer deposits | (154) | (2,218) |
| Increase (decrease) in unearned revenue | 58 | (83) |
| Net cash used in operating activities | (1,293) | (74) |
| Cash flows from investing activities: | | |
| Capital expenditures | (20) | (5) |
| Net cash used in investing activities | (20) | (5) |
| Cash flows from financing activities: | | |
| Proceeds of note payable to an affiliated entity | 1,550 | -- |
| Deferred loan costs | (100) | -- |
| Repayment of capital lease obligation | (9) | (24) |
| Purchase of common stock | -- | 1 |
| Net cash provided by (used in) financing activities | 1,441 | (23) |
| Net increase (decrease) in cash and cash equivalents | 128 | (102) |
| Cash and cash equivalents, beginning of year | 5 | 107 |
| Cash and cash equivalents, end of year | \$ 133 | \$ 5 |

See notes to financial statements

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FORM 10-KSB**NOTES TO FINANCIAL STATEMENTS****1. Description of Business and Summary of Significant Accounting Policies****Description of Business**

Positron Corporation (the "Company") was incorporated on December 20, 1983 in the state of Texas and commenced commercial operations during 1986. The Company designs, manufactures, markets and services its POSICAM™ system advanced medical imaging devices, utilizing positron emission tomography ("PET") technology. These systems utilize the Company's patented and proprietary technology, an imaging technique which assesses the biochemistry, cellular metabolism and physiology of organs and tissues, as well as producing anatomical and structural images. Targeted markets include medical facilities and diagnostic centers located throughout the world. POSICAM™ systems are used by physicians as diagnostic and treatment evaluation tools in the areas of cardiology, neurology and oncology. The Company faces competition principally from three other companies which specialize in advanced medical imaging equipment.

Cash Equivalents and Short-term Investments

For the purposes of reporting cash flows, the Company considers highly liquid, temporary cash investments with an original maturity period of three months or less to be cash equivalents. Short-term investments include certificates of deposits, commercial paper and other highly liquid investments that do not meet the criteria of cash equivalents. Cash equivalents and short-term investments are stated at cost plus accrued interest which approximates fair value.

Concentrations of Credit Risk

Cash and accounts receivables are the primary financial instruments that subject the Company to concentrations of credit risk. The Company maintains its cash in banks or other financial institutions selected based upon management's assessment of the bank's financial stability. Cash balances periodically exceed the \$100,000 federal depository insurance limit.

Accounts receivable arise primarily from transactions with customers in the medical industry located throughout the world, but concentrated in the United States and Japan. The Company provides a reserve for accounts where collectibility is uncertain. Collateral is generally not required for credit granted.

Inventory

Inventories are stated at the lower of cost or market and include material, labor and overhead. Cost is determined using the first-in, first-out (FIFO) method of inventory valuation.

Property and Equipment

Property and equipment are recorded at cost and depreciated for financial statement purposes using the straight-line method over estimated useful lives of three to seven years. Gains or losses on dispositions are included in the statement of operations in the period incurred. Maintenance and repairs are charged to expense as incurred.

Impairment of Long-Lived Assets

Periodically, the Company evaluates the carrying value of its plant and equipment, and long-lived assets, which includes patents and other intangible assets, by comparing the anticipated future net cash flows associated with those assets to the related net book value. If an impairment is indicated as a result of such reviews, the Company would remove the impairment based on the fair market value of the assets, using techniques such as projected future discounted cash flows or third party valuations.

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FORM 10-KSB**Revenue Recognition**

Revenues from POSICAM™ system contracts are recognized when all significant costs have been incurred and the system has been shipped to the customer. Revenues from maintenance contracts are recognized over the term of the contract. Service revenues are recognized upon performance of the services.

Advertising

Nondirect-response advertising costs are charged to operations the first time the advertising takes place. The cost of direct-response advertising is not significant. Advertising expenses for 2004 and 2003 were \$78,000 and \$46,000, respectively.

Research and Development Expenses

All costs related to research and development are charged to expense as incurred.

Stock Based Compensation

The Company has elected to apply the disclosure only provisions of Statement of Financial Accounting No. 123, Accounting for Stock-Based Compensation (“SFAS 123”) which, if fully adopted by the Company, would change the method the Company applies in recognizing the cost of the Plan. Adoption of the cost recognition provisions of SFAS 123 is optional and the Company has decided not to elect those provisions. As a result, the Company continues to apply Accounting Principles Board Opinion No. 25 (“APB 25”) and related interpretations in accounting for the measurement and recognition of the Plan’s cost.

Under SFAS 123, compensation cost is measured at the grant date based on the fair value of the awards and is recognized over the service period, which is usually the vesting period. The fair value of options granted during 2004 and 2003 was estimated on the date of grant using the Black Scholes option-pricing model with the following assumptions used to calculate fair value: (i) average dividend yield of 0.00%; (ii) expected volatility of 242.00% and 100.00%, respectively; (iii) expected life of two (2) years; and (iv) estimated risk-free interest rate of 3.27% and 6.00%, respectively.

| | 2004 | 2003 |
|---|------------|--------|
| Net income (loss) as reported | \$ (1,658) | \$ 892 |
| Add: Stock-based employee compensation expense included in reported net income | 363 | -- |
| Deduct: Stock-based employee compensation expense determined under fair value based method for all awards | (400) | (89) |
| Pro-Forma net income (loss) | \$ (1,695) | \$ 803 |
| Earnings (loss) per share | | |

| | | | | |
|-------------------------------|----|--------|----|-----|
| Basic and diluted as reported | \$ | (0.03) | \$ | .02 |
| Basic and diluted pro-forma | \$ | (0.03) | \$ | .01 |

Warranty Costs

The Company accrues for the cost of product warranty on POSICAM™ systems at the time of shipment. Warranty periods generally range up to a maximum of one year but may extend for longer periods. Actual results could differ from the amounts estimated.

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FORM 10-KSB**Earnings Per Common Share**

Basic earnings per share are calculated by dividing net income by the weighted average common shares outstanding during the period. Diluted earnings per share is calculated by dividing net income by the weighted average number of common shares used in the basic earnings per share calculation plus the number of common shares that would be issued assuming conversion of all potentially dilutive securities outstanding, less common shares which could have been repurchased by the Company with the related proceeds.

Estimates

The preparation of financial statements in conformity with generally accepted accounting principles 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.

Fair Value of Financial Instruments

The Company includes fair value information in the notes to the financial statements when the fair value of its financial instruments is different from the book value. When the book value approximates fair value, no additional disclosure is made.

New Accounting Pronouncements

In December 2004, the Financial Accounting Standards Board (FASB) issued Statement of Financial Accounting Standards (SFAS) No. 123 (revised 2004), "Share-Based Payment" (SFAS No. 123R). SFAS No. 123R requires companies to recognize an expense for the value of employee stock-based compensation. Cost of the Company's stock option awards will be measured at fair value on the awards grant date, based on the estimated number of awards that are expected to vest. Companies are to select from two transition methods. The Company is currently evaluating the two transition methods for adopting SFAS No. 123R. SFAS No. 123R is effective for the Company for interim and annual periods beginning after December 15, 2005. The Company's existing pro-forma disclosure included above under Stock Based Compensation presents the approximate impact of SFAS No. 123R had it been adopted in the periods presented.

2. Going Concern Consideration

Since its inception the Company has been unable to sell POSICAM™ systems in quantities sufficient to be operationally profitable. Consequently, the Company has sustained substantial losses. At December 31, 2004, the Company had an accumulated deficit of \$58,433,000 and a stockholders' deficit of \$1,889,000. Due to the sizable prices of the Company's systems and the limited number of systems sold or placed in service each year, the Company's revenues have fluctuated significantly year to year.

The Company utilized proceeds of \$1,550,000 from a note payable to an affiliated entity to fund its 2004 operating activities. As a result, the Company had cash and cash equivalents of \$133,000 at December 31, 2004. At the same date, the Company had accounts payable and accrued liabilities of \$1,393,000.

There can be no assurance that the Company will be successful in implementing its business plan and ultimately achieving operational profitability. The Company's long-term viability as a going concern is dependent on its ability to 1) achieve adequate profitability and cash flows from operations to sustain its operations, 2) control costs and expand

revenues from existing or new business and 3) meet current commitments and fund the continuation of its business operation in the near future.

3. Inventories

Inventories at December 31, 2004 consisted of the following (in thousands):

| | | |
|-------------------------------|----|-------|
| Raw materials | \$ | 651 |
| Work in progress | | 285 |
| Subtotal | | 936 |
| Less reserve for obsolescence | | (100) |
| Total | \$ | 836 |

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POSITRON CORPORATION**4. Property and Equipment**

Property and equipment at December 31, 2004 consisted of the following (in thousands):

| | | |
|-------------------------------|----|-------|
| Furniture and fixtures | \$ | 138 |
| Computers and peripherals | | 317 |
| Machinery and equipment | | 123 |
| Subtotal | | 578 |
| Less accumulated depreciation | | (422) |
| Total | \$ | 156 |

5. Accounts Payable and Accrued Liabilities

Accounts payable and accrued liabilities at December 31, 2004 consisted of the following (in thousands):

| | | |
|----------------------------|----|-------|
| Accrued royalties | \$ | 314 |
| Trade accounts payable | | 293 |
| Sales taxes payable | | 236 |
| Accrued property taxes | | 179 |
| Accrued compensation | | 126 |
| Accrued professional fees | | 75 |
| Accrued interest | | 65 |
| Accrued warranty costs | | 60 |
| Insurance premiums payable | | 45 |
| Total | \$ | 1,393 |

6. Notes Payable to Affiliated Entity

On May 26, 2004 and June 17, 2004, the Company sold two separate secured convertible promissory notes under a Note Purchase Agreement dated May 21, 2004, to IMAGIN Diagnostic Centres, Inc. ("IMAGIN") in the principal amounts of \$400,000 and \$300,000, respectively. Interest is charged on the outstanding principal at the rate of ten percent (10%) per annum and is payable annually on the anniversary dates of these notes. The principal and any unpaid interest must be paid on the earlier to occur of May 21, 2006 or when declared due and payable by IMAGIN upon occurrence of an event of default. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company's common stock. These notes are collateralized by all of the assets of the Company. As of December 31, 2004, principal of \$700,000 has been advanced and remains outstanding related to these notes.

In a second stage of the financing, IMAGIN agreed to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. These notes were to be purchased over a six and a half month period, commencing July 15, 2004. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock. As of December 31, 2004, principal of \$850,000 has been advanced and remains outstanding related to these notes.

7. Sale of Cardiac PET Software

The Company entered into a loan arrangement on June 29, 2001 with Imatron Inc. ("Imatron"), a stockholder of the Company, for the purpose of borrowing up to \$2,000,000 to fund operating activities. This loan was collateralized by substantially all the assets of the Company. Interest was charged on the outstanding principal balance at an annual rate of 10% and was payable monthly. As of June 29, 2003 the principal balance of the loan was \$2,000,000. Principal on the loan amounting to \$1,000,000 and \$500,000 was to be repaid within five (5) business days of December 31, 2001 and March 31, 2002, respectively. The remaining \$500,000 of loan principal and all unpaid interest was due and payable no later than June 30, 2002.

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In conjunction with the loan, the Company granted Imatron warrants to purchase 6,000,000 shares of common stock, at an exercise price of \$.30 per share that were exercisable through June 30, 2006. The warrants issued to Imatron had an approximate value of \$200,000 at the date of issue. Such cost was treated as a loan origination cost and amortized to expense over the twelve-month term of the note payable, using the effective interest method.

Imatron had previously acquired 9,000,000 shares of the Company's common stock on January 22, 1999. General Electric Company ("GE") acquired Imatron on December 19, 2001.

Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company's obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company's future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at least four quarters.

8. Options and Warrants

Options

Effective June 3, 1994, the shareholders of the Company approved the 1994 Incentive and Nonstatutory Option Plan (the "1994 Plan"). The 1994 Plan as amended, provides for the issuance of an aggregate of 601,833 common stock options to key employees, directors, and certain consultants and advisors of the Company. The 1994 Plan also provides that the exercise price of Incentive Options shall not be less than the fair market value of the shares on the date of the grant. The exercise price per share of Nonstatutory options shall not be less than the par value of the common stock or 50% of the fair market value of the common stock on the date of grant. The 1994 Plan is administered by the Compensation Committee of the Board of Directors. The committee has the authority to determine the individuals to whom awards will be made, the amount of the awards, and all other terms and conditions of the awards.

The 1994 Plan also provides that each non-employee director automatically receives options to purchase 10,500 shares of common stock at the date such individual becomes a non-employee director. Each non-employee director who is a director on the first business day following each Annual Shareholder Meeting also receives an option to purchase a number of shares of common stock having a value of \$15,000 as determined by the fair market value of the common stock at the date of grant. The terms of the 1994 Plan regarding issuances to non-employee directors were suspended during the years ended December 31, 1999 and 1998. All 1994 Plan options expire within ten years of the

date of the grant.

Effective June 15, 1999, the shareholders of the Company adopted the 1999 Stock Option Plan (the "1999 Plan") and terminated the 1994 Stock Option Plan, effective October 6, 1999. The 1994 Plan provided for the grant of options to officers, directors, key employees and consultants of the Company. The 1999 Plan provides for the grant of options to officers, employees (including employee directors) and consultants. The 1999 Plan is administered by the Board of Directors. The administrator is authorized to determine the terms of each option granted under the plan, including the number of shares, exercise price, term and exercisability. Options granted under the plan may be incentive stock options or nonqualified stock options. The exercise price of incentive stock options may not be less than 100% of the fair market value of the common stock as of the date of grant (110% of the fair market value in the case an optionee owns more than 10% of the total combined voting power of all classes of Positron capital stock). Options may not be exercised more than ten years after the date of grant (five years in the case of 10% stockholders). As of December 31, 2004, a total of 5,467,500 stock options have been awarded under the 1999 Plan.

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FORM 10-KSB**Non-Employee Directors' Stock Option Plan**

Effective October 6, 1999, the shareholders of the Company approved the 1999 Non-Employee Directors' Stock Option Plan (the "Directors' Plan") which provides for the automatic grant of an option to purchase 25,000 shares of common stock to non-employee directors upon their election or appointment to the Board, and subsequent annual grants also in the amount of 25,000 shares of common stock. The exercise price of the options is 85% of the fair market value of the common stock on the date of grant. The Directors' Plan is administered by the Board. Options granted under the Directors' Plan become exercisable in one of two ways: either in four equal annual installments, commencing on the first anniversary of the date of grant, or immediately but subject to the Company's right to repurchase, which repurchase right lapses in four equal annual installments, commencing on the first anniversary of the date of grant. To the extent that an option is not exercisable on the date that a director ceases to be a director of the Company, the unexercisable portion terminates. Options covering 400,000 shares of common stock have been granted under the Directors' Plan at December 31, 2004.

1999 Stock Bonus Incentive Plan

In October 1999 the Board adopted an Employee Stock Bonus Incentive Plan (the "Stock Bonus Plan"), effective November 1, 1999. The Stock Bonus Plan provides for the grant of bonus shares to any Positron employee or consultant to recognize exceptional service and performance beyond the service recognized by the employee's salary or consultant's fee. The Board has authorized up to an aggregate of 1,000,000 shares of common stock for issuance as bonus awards under the Stock Bonus Plan. The Stock Bonus Plan is currently administered by the Board. Each grant of bonus shares is in an amount determined by the Board, up to a maximum of the participant's salary. The shares become exercisable according to a schedule to be established by the Board at the time of grant. No shares have been issued under the Stock Bonus Plan at December 31, 2004.

1999 Employee Stock Purchase Plan

The shareholders of the Company approved the 1999 Employee Stock Purchase Plan (the "Purchase Plan") in October 1999. A total of 500,000 shares of common stock have been reserved for issuance under the Purchase Plan, none of which has yet been issued. The Purchase Plan permits eligible employees to purchase common stock at a discount through payroll deductions during offering periods of up to 27 months. Offering periods generally will begin on the first trading day of a calendar quarter. The initial offering period began on January 1, 2000. The price at which stock is purchased under the Purchase Plan will be equal to 85% of the fair market value of common stock on the first or last day of the offering period, whichever is lower. No shares have been issued under the Purchase Plan at December 31, 2004.

A summary of stock option activity is as follows:

| | Shares Issuable Under Outstanding Options | Price Range or Weighted Average Exercise Price |
|------------------------------|--|---|
| Balance at December 31, 2002 | 2,188,745 | \$0.54 |
| Granted | 1,905,000 | \$0.01 - \$0.05 |
| Exercised | (12,500) | \$0.05 |
| Forfeited | (1,776,657) | \$0.05 - \$1.06 |

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| | | |
|------------------------------|-----------|-----------------|
| Balance at December 31, 2003 | 2,304,588 | \$0.32 |
| Granted | 100,000 | \$0.03 - \$0.12 |
| Forfeited | (682,316) | \$0.02 - \$4.13 |
| Balance at December 31, 2004 | 1,722,272 | \$0.12 |

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In 2003, the Company issued options to purchase 1,855,000 shares of common stock to employees under the 1999 Plan at an exercise price of \$0.05 per share. In conjunction with the IMAGIN transaction in 2004 (see Note 12), the Company agreed to exchange 917,068 outstanding options currently held by its employees for new options that are exercisable for the purchase of common stock at a price of \$0.02 per share.

The shares exercisable for vested options and the corresponding weighted average exercise price was 960,123 shares and \$0.20 per share at December 31, 2004.

Following is a summary of stock options outstanding at December 31, 2004.

| Range of Exercise Price | Options Outstanding | | | Options Exercisable | |
|-------------------------|---------------------|--|---------------------------------|---------------------|---------------------------------|
| | Shares | Weighted Average Remaining Term (in Years) | Weighted Average Exercise Price | Shares | Weighted Average Exercise Price |
| \$2.625 | 30,000 | .20 | \$ 2.63 | 30,000 | \$ 2.63 |
| \$0.020 | 188 | .66 | \$ 0.02 | 27 | \$ 0.02 |
| \$0.020 - \$0.280 | 400,000 | 4.60 | \$ 0.21 | 314,583 | \$ 0.26 |
| \$0.020 | 46,250 | 5.10 | \$ 0.02 | 6,745 | \$ 0.02 |
| \$0.111 | 25,000 | 6.25 | \$ 0.11 | 25,000 | \$ 0.11 |
| \$0.068 - \$0.077 | 50,000 | 7.17 | \$ 0.07 | 50,000 | \$ 0.07 |
| \$0.010 - \$0.050 | 1,070,834 | 8.25 | \$ 0.03 | 433,767 | \$ 0.04 |
| \$0.034 - \$0.119 | 100,000 | 9.25 | \$ 0.08 | 100,000 | \$ 0.08 |
| Balance at 12/31/2004 | 1,722,272 | | \$ 0.12 | 960,122 | \$ 0.20 |
| Balance at 12/31/2003 | 2,304,588 | | \$ 0.32 | 1,730,854 | \$ 0.42 |

No compensation expense related to options was recognized by the Company in the accompanying Statement of Operations during the year ended December 31, 2003. The Company recognized \$13,000 in compensation in 2004 related to the re-pricing of options (see Note 12).

Warrants

During 2003, warrants to purchase 6,000,000 shares of common stock were surrendered in conjunction with the sale of the Company's Cardiac PET Software (See Note 7). In 2004, the Company agreed to issue new warrants and re-price various outstanding warrants in conjunction with the IMAGIN transaction (see Note 12).

A summary of warrant activity is as follows:

| | Number of Shares | Exercise Price | Weighted Average Exercise Price |
|--|------------------|----------------|---------------------------------|
| Balance at December 31, 2002 | 31,220,000 | \$ 0.05-\$2.40 | \$ 0.24 |
| Warrants surrendered in connection with sale of Cardiac PET Software | (6,000,000) | \$ 0.30 | \$ 0.30 |

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| | | | |
|--|-----------------|------------------|------|
| Expired | (100,000) \$ | 0.15 \$ | 0.15 |
| Balance at December 31, 2003 | 25,120,000 \$ | 0.05 - \$2.40 \$ | 0.23 |
| New warrants issued in connection with IMAGIN transaction | 8,575,000 \$ | 0.02 \$ | 0.02 |
| Expired | (15,545,000) \$ | 0.05 - \$0.30 \$ | 0.23 |
| Balance at December 31, 2004 | 18,150,000 | | |

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All outstanding warrants are currently exercisable. A summary of outstanding stock warrants at December 31, 2004 follows:

| Number of Common Stock Equivalents | Expiration Date | Remaining Contractual Life (Years) | Exercise Price |
|---|------------------------|---|-----------------------|
| 3,825,000 | August 2005 | 0.7 | \$0.02 |
| 250,000 | January 2007 | 2.1 | \$2.40 |
| 500,000 | October 2007 | 2.8 | \$0.02 |
| 1,250,000 | March 2008 | 3.3 | \$0.25 |
| 3,750,000 | June 2009 | 4.5 | \$0.02 |
| 8,575,000 | May 2010 | 5.4 | \$0.02 |
| 18,150,000 | | | |

No compensation expense related to warrants was recognized by the Company in the accompanying statement of operations during the year ended December 31, 2003. The Company recognized \$350,000 in compensation expense in 2004 related to the re-pricing of warrants (see Note 12).

9. Preferred Stock

The Company's Articles of Incorporation authorize the Board of Directors to issue 10,000,000 shares of preferred stock from time to time in one or more series. The Board of Directors is authorized to determine, prior to issuing any such series of preferred stock and without any vote or action by the shareholders, the rights, preferences, privileges and restrictions of the shares of such series, including dividend rights, voting rights, terms of redemption, the provisions of any purchase, retirement or sinking fund to be provided for the shares of any series, conversion and exchange rights, the preferences upon any distribution of the assets of the Company, including in the event of voluntary or involuntary liquidation, dissolution or winding up of the Company, and the preferences and relative rights among each series of preferred stock.

Series A Preferred Stock

In February, March and May of 1996, the Company issued 3,075,318 shares of Series A 8% Cumulative Convertible Redeemable Preferred Stock \$1.00 par value ("Series A Preferred Stock") and Redeemable common stock Purchase Warrants to purchase 1,537,696 shares of the Company's Common Stock. The net proceeds of the private placement were approximately \$2,972,000. Subject to adjustment based on issuance of shares at less than fair market value, each share of the Series A Preferred Stock was initially convertible into one share of common stock. Each Redeemable common stock Purchase Warrant is exercisable at a price of \$2.00 per share of common stock. Eight percent (8%) dividends on the Series A Preferred Stock may be paid in cash or in Series A Preferred Stock at the discretion of the Company. The Series A Preferred Stock is senior to the Company's common stock in liquidation. Holders of the Series A Preferred stock may vote on an as if converted basis on any matter requiring shareholder vote. While the Series A Preferred Stock is outstanding or any dividends thereon remain unpaid, no common stock dividends may be paid or declared by the Company. The Series A Preferred Stock may be redeemed in whole or in part, at the option of the Company, at any time subsequent to March 1998 at a price of \$1.46 per share plus any undeclared and/or unpaid dividends to the date of redemption. Redemption requires at least 30 days advanced notice and notice may only be given if the Company's common stock has closed above \$2.00 per share for the twenty consecutive trading days prior to the notice.

As of December 31, 2004, stated dividends that are undeclared and unpaid on the Series A Preferred Stock total \$399,000. The Company anticipates that such dividends, if and when declared, will be paid in shares of Series A Preferred Stock.

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FORM 10-KSB**10. Income Taxes**

The Company has incurred losses since its inception and, therefore, has not been subject to federal income taxes. As of December 31, 2004, the Company had net operating loss (“NOL”) carryforwards for income tax purposes of approximately \$12,000,000, which expire in 2005 through 2024. Under the provisions of Section 382 of the Internal Revenue Code the greater than 50% ownership changes that occurred in the Company in connection with the Imatron Transaction and in connection with the private placement of the Company’s common stock limited the Company’s ability to utilize its NOL carryforward to reduce future taxable income and related tax liabilities.

The composition of deferred tax assets and the related tax effects at December 31, 2004 are as follows (in thousands):

| | |
|----------------------------------|----------|
| Deferred tax assets: | |
| Net operating losses | \$ 3,939 |
| Accrued liabilities and reserves | 300 |
| Inventory basis difference | 107 |
| | 4,346 |
| Valuation allowance | (4,346) |
| Total deferred tax assets | \$ -- |

The difference between the income tax benefit in the accompanying statement of operations and the amount that would result if the U.S. Federal statutory rate of 34% were applied to pre-tax income (loss) is as follows (amounts in thousands):

| | 2004 | | 2003 | |
|--------------------------------|--------|--------|----------|--------|
| | Amount | % | Amount | % |
| Benefit (provision) for income | | | | |
| tax at federal statutory rate | \$ 564 | 34.0 | \$ (303) | (34.0) |
| Other | (32) | (2.0) | 35 | 4.0 |
| Change in valuation allowance | (532) | (32.0) | 268 | 30.0 |
| | \$ -- | -- | \$ -- | -- |

11. 401(k) Plan

The Positron Corporation 401(k) Plan and Trust (the “Plan”) covers all of the Company’s employees who are United States citizens, at least 21 years of age and have completed at least one quarter of service with the Company. Pursuant to the Plan, employees may elect to reduce their current compensation by up to the statutorily prescribed annual limit and have the amount of such reduction contributed to the Plan. The Plan provides for the Company to make contributions in an amount equal to 25 percent of the participant’s deferral contributions, up to 6 percent of the employee’s compensation, as defined in the Plan agreement. The Company’s contribution expense was approximately \$18,000 in 2003. The Company made no contributions in 2004. The Board of Directors of the Company may authorize additional discretionary contributions; however, no additional Company contributions have been made as of December 31, 2004.

12. Related Party Transactions

Key Employee Incentive Compensation

The Company has an incentive compensation plan for certain key employees and its Chairman. The incentive compensation plan provides for annual bonus payments based upon achievement of certain corporate objectives as determined by the Company's compensation committee, subject to the approval of the board of directors. During 2004 the Company did not pay any bonus pursuant to the incentive compensation plan.

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FORM 10-KSB**Imatron Transaction**

In May 1998, the Company entered into an agreement (the “Imatron Transaction”) with Imatron. Pursuant to the agreement, Imatron acquired 9,000,000 shares of the Company’s common stock on January 22, 1999, representing at that time, a majority ownership of the outstanding common stock of the Company on a fully-diluted and as-if-converted basis, excluding out-of-the-money warrants and options determined at that time. In exchange, the Company received from Imatron (a) nominal cash; (b) an immediate loan of up to \$500,000 in working capital to assist the Company in meeting then current financial obligations; (c) an agreement that Imatron would undertake all reasonable efforts to have its affiliate, Imatron Japan, Inc. assist the Company in the sale of 10 POSICAM™ systems over the next three years; (d) an agreement that Imatron would help facilitate the recapitalization of the Company to support its re-entry into the medical imaging market by using its best efforts to arrange for additional third-party equity financing for the Company over an eighteen-month period in an aggregate amount of not less than \$8,000,000; and (e) a new management team selected by Imatron. During the year ended December 31, 2001, Imatron loaned the Company \$2,000,000 (Note 7). On December 19, 2001, Imatron was acquired by General Electric Company. General Electric Company is a competing manufacturer of PET imaging systems.

Effective June 29, 2003, the Company entered into a Technology Purchase Agreement to transfer its Cardiac PET Software to GE in exchange for cancellation of the indebtedness under this loan and the surrender of the 9,000,000 shares of common stock and the warrant to purchase 6,000,000 shares of common stock. The Company recognized a gain of \$2,376,000 related to the sale of this technology. This gain resulted from the cancellation of the Company’s obligation for \$2,000,000 in principal and accrued interest of \$376,000 under the loan. The Company’s future commitment to provide assistance to GE for the purpose of fully utilizing and exploiting this technology, as well as the compensation for these services, were provided for in a separate service agreement discussed below.

As part of the transactions contemplated by the Technology Purchase Agreement, the Company entered into a Software License Agreement. Pursuant to terms of the Software License Agreement, the Company received an irrevocable license from GE to continue using, modifying, distributing and otherwise exploiting the Cardiac PET Software in perpetuity.

In conjunction with the Technology Purchase Agreement, the Company also entered into an Agreement for Services for the purpose of assisting GE in fully utilizing and exploiting the Cardiac PET Software. The Company agreed to provide services for a period of six quarters (eighteen months) for a fee of \$50,000 per each 3-month period during the term of this agreement. GE committed to pay the fee for the first two quarters of \$50,000 (total of \$100,000) within two business days of July 29, 2003 and will make payment of any subsequent quarters in advance of such quarter. GE may terminate the Agreement for Services at any time after it has paid the fees for at least four quarters.

IMAGIN Transaction

In May 2004, the Company entered into a series of agreements with IMAGIN pursuant to which IMAGIN agreed to provide over the next seven months an aggregate \$2,000,000 of financing to the Company. When the financing is completed and if all the conversion rights are exercised, IMAGIN will control approximately one-half of the Company’s common stock.

In the first stage of the financing, IMAGIN agreed to purchase an aggregate of \$700,000 face amount of the Company’s 10% secured convertible promissory notes (see note 5). As of December 31, 2004, IMAGIN has purchased \$700,000 of these notes. These notes are due and payable on May 21, 2006. The notes are initially convertible into new shares of Series C Preferred Stock that, in turn are convertible into an aggregate of 35,000,000 shares of the Company’s common stock.

IMAGIN also agreed, in a second stage of the financing, to purchase additional secured convertible promissory notes in the aggregate principal amount of \$1,300,000. IMAGIN agreed to purchase these notes over a six and a half month period, commencing July 15, 2004. As of December 31, 2004, IMAGIN has purchased \$850,000 of these notes. These notes are due and payable on May 21, 2006. These notes are initially convertible into new shares of Series D Preferred Stock that, in turn is convertible into an aggregate of 52,000,000 shares of the Company's common stock.

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Pursuant to the terms of the agreements, the Company granted to IMAGIN a security interest in all of its assets to secure payment of the convertible promissory notes. Full convertibility of the shares of Series C and Series D Preferred Stock into common stock will require an amendment to the Company's Articles of Incorporation which must be approved by the shareholders. The Company has agreed to seek such approval. The Company has agreed to pay a \$200,000 fee to IMAGIN upon completion of the financing.

Several agreements were reached involving option and warrants contracts for the purchase of common stock of the Company.

- The Company agreed to exchange 917,068 outstanding options currently held by its employees for new options that are exercisable for the purchase of common stock at a price of \$0.02 per share. The new options issued to the employees are subject to four year vesting in equal monthly installments. This re-pricing will require the Company to apply the variable accounting rules established in Interpretation No. 44 of the Financial Accounting Standards Board ("FIN 44") to these options and record changes in compensation based upon movements in the stock price. The Company recognized \$13,000 in compensation expense in 2004, in accordance with the variable accounting rules established in FIN 44. The market value of the Company's common stock increased to \$0.12 per share at December 31, 2004, resulting in an intrinsic value of \$0.10 per share.
- The Company agreed to re-price the outstanding warrants currently held by its President & CEO for the purchase of 3,500,000 shares of common stock at \$0.02 per share. The Company recognized \$350,000 in compensation expense in 2004, in accordance with the variable accounting rules established in FIN 44. The market value of the Company's common stock increased to \$0.12 per share at December 31, 2004, resulting in an intrinsic value of \$0.10 per share. The Company will record changes in compensation based upon movements in the stock price.
- The Company agreed to issue a new warrant to its President & CEO for the purchase of 4,000,000 shares of common stock at \$0.02 per share.
- The Company agreed to re-price outstanding warrants for the purchase of 9,150,000 shares of common stock. These warrants have been surrendered and new warrants will be issued to the same third party holders for the purchase of 4,575,000 shares of common stock at \$0.02 per share. New warrants for the purchase of 4,575,000 shares of common stock at \$0.02 per share (the remaining half of the surrendered warrants) will also be issued to IMAGIN.

In connection with the financing, IMAGIN entered into an additional agreement to purchase an aggregate of 10 PET scanners at a purchase price of \$1,300,000 each. As a result of the regulatory difficulties encountered in connection with attempts to import and use scanners in Canada, the parties have since agreed to terminate IMAGIN's obligation to purchase these scanners.

13. Commitments and Contingencies

Royalty Agreements

The Company acquired the know-how and patent rights for positron imaging from three entities: the Clayton Foundation, K. Lance Gould (formerly a director) and Nizar A. Mullani (also formerly a director.) Pursuant to agreements with each of them, the Company was obligated to pay royalties of up to 4.0% in the aggregate of gross revenues from sales, uses, leases, licensing or rentals of the relevant technology. Royalty obligations amounting to approximately \$314,000 were included in liabilities at December 31, 2004.

Lease Agreements

Prior to 1998, the Company leased its office and manufacturing facility and certain office equipment under leases with unexpired terms ranging from one to four years. In March 1998, the Company, under severe cash flow constraints,

was forced to leave its long-term office and manufacturing facility lease space and move its operations to a facility with significantly reduced space and a more affordable lease payment. Although the Company entered into an agreement with the landlord regarding vacating the space, a dispute subsequently arose with the landlord as to interpretation of that agreement. The landlord has filed suit against the Company claiming that the Company owes approximately \$150,000, plus attorney's fees, to the landlord under the terms of the agreement. A subsequent analysis of the transactions under the lease has resulted in the reduction of the lease obligation alleged by 10P10, L.P. to approximately \$97,000. In October 2004, the Company finalized a Compromise & Settlement Agreement with 10P10, L.P. In accordance with the terms of this agreement, the Company paid \$42,776 in 2004 in full and final settlement of all remaining claims. Operating expenses were reduced by approximately \$54,000 and \$57,000 in 2004 and 2003, respectively, as a result of credits and charges associated with the abandoned lease.

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The Company operates in leased facilities under an operating lease that expires in March 2004 and contains no renewal options. The rental rate for the facility was \$6,744 per month through April 30, 2001 and the monthly rate increased to \$7,171 for the period from May 1, 2001 through October 31, 2003. The Company reduced its space under lease and lowered the monthly rent to \$4,671 for the period from November 1, 2003 through March 31, 2004. This facility lease continues on a month-to-month basis after March 31, 2004 at the \$4,671 monthly rental rate. The cost of leasing the Company's operating facility amounted to approximately \$56,000 and \$74,000 in 2004 and 2003, respectively.

Litigation

ProFutures Capital Bridge Fund, L.P.

On September 26, 2000, ProFutures Bridge Capital Fund, L.P. ("ProFutures") filed a complaint against the Company in Colorado state court for declaratory relief and breach of contract (the "Complaint"). The Complaint alleged that the Company breached four stock purchase warrants issued to ProFutures on the basis that the Company failed to notify ProFutures of dilutive events and failed to register the full number of shares ProFutures was allegedly entitled to purchase under the warrants when, on February 14, 2000, the Company registered 1,500,000 shares of stock underlying ProFutures' warrants instead of 4,867,571. The Complaint further alleged that the Company's issuance of shares of common stock to Imatron, Inc. on or about January 22, 1999, (the "Imatron Transaction") was a dilutive event pursuant to the anti-dilution provisions contained in the four stock purchase warrants. The Complaint sought declarations that the consideration received by the Company in the Imatron Transaction increased the number of shares issuable under the warrants, the Company breached the warrants by failing to notify ProFutures of the Imatron Transaction and its effect on ProFutures' warrants at the time of the Imatron Transaction and that the Company further breached the warrants by failing to register the number of shares ProFutures alleged were purchasable under its warrants. The Complaint sought an unspecified amount of monetary damages.

The Colorado State level case of ProFutures v. Positron, District Court, City and County of Denver, Colorado, Case No. 00CV7146, was tried before the Court in June 2002. The Court issued its Findings of Fact, Conclusions of Law and Judgment on November 13, 2002. The Court agreed with Positron's determination of the value of the consideration paid for the shares issued to Imatron and that there was no evidence of fraud by Positron. The Court agreed with ProFutures that Positron breached the 1996 stock purchase warrant with ProFutures by failing to give ProFutures written notice stating the adjusted exercise price and the new number of shares deliverable as a result of the Imatron Transaction and by failing to register the shares to which ProFutures was entitled under the warrant as a result of the Imatron Transaction. Nevertheless, the Court also found that ProFutures' alleged damages were uncertain and speculative and that ProFutures was not entitled to recover actual damages. Therefore ProFutures was awarded \$1 in nominal damages. ProFutures appealed the trial Court's findings and Positron cross-appealed. On July 1, 2004, the Court of Appeals, State of Colorado affirmed the District Court decision. ProFutures has appealed this decision to the Supreme Court of the State of Colorado. On February 22, 2005, the appeal by ProFutures was denied.

In the federal case of ProFutures v. Positron, et al., United States District Court for the District of Colorado, Case No. 02-N-0154, the Complaint alleged two causes of action against the Company: fraudulent transfer and injunctive relief. The allegations arose out of a June 2001 loan agreement between Positron and Imatron. The action was dismissed in 2002 without prejudice.

14.

Earnings Per Share

The following information details the computation of basic and diluted earnings per share:

FY 2004

POSITRON CORPORATION

| | Year Ended December 31, (In thousands, except for per share data) | |
|--|--|---------|
| | 2004 | 2003 |
| Numerator: | | |
| Basic and diluted net income (loss): | \$ (1,658) | \$ 892 |
| Denominator: | | |
| Denominator for basic earnings per share-weighted average shares | 53,186 | 57,616 |
| Effect of dilutive securities | | |
| Convertible Series A Preferred Stock | -- | 510 |
| Stock Warrants | -- | 582 |
| Stock Options | -- | 151 |
| Denominator for diluted earnings per share-adjusted weighted average shares and assumed conversions | 53,186 | 58,859 |
| Basic and diluted income (loss) per common share | \$ (0.03) | \$ 0.02 |

All common stock equivalents in the year ended December 31, 2004 were excluded from the above calculation as their effect was anti-dilutive.

15. Segment Information and Major Customers

The Company believes that all of its material operations are conducted in the servicing and sales of medical imaging devices and it currently reports as a single segment.

During the years ended December 31, 2004 and 2003 the Company had a limited number of customers as follows:

| | 2004 | 2003 |
|---|------|------|
| Number of customers | 13 | 16 |
| Customers accounting for more than 10% of revenues | 2 | 3 |
| Percent of revenues derived from largest customer | 45% | 35% |
| Percent of revenues derived from second largest customer | 20% | 24% |

16. Supplemental Cash Flow Data

| | 2004 | 2003 |
|---|-------|-------|
| Supplemental disclosure of cash flow information (in thousands): | | |
| Cash paid for interest | \$ -- | \$ 4 |
| Cash paid for income taxes | \$ -- | \$ -- |
| Non-cash investing and financing activities (in thousands): | | |
| Extinguishment of debt and accrued interest and cancellation | | |

| | | | | |
|--|----|----|----|-------|
| of warrants and common stock in asset sale | \$ | -- | \$ | 2,376 |
|--|----|----|----|-------|

17.

Subsequent Events

Transaction with Solaris Opportunity Fund, L.P.

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On February 28, 2005, the Company entered into a series of agreements with Solaris Opportunity Fund, L.P. pursuant to which Solaris agreed to purchase an aggregate of \$1,000,000 face amount of the Company's 10% secured convertible promissory notes. As of March 7, 2005, Solaris has purchased \$200,000 of these notes. These notes are due and payable on March 6, 2007. The notes are initially convertible into new shares of Series E Preferred Stock that, in turn are convertible into an aggregate of 22,000,000 shares of the Company's common stock.

Pursuant to the terms of the agreements, the Company granted to Solaris a security interest in all of its assets to secure payment of the convertible promissory notes. The security interest is subordinate to the security interest granted in the same collateral to IMAGIN Diagnostic Centres, Inc. Full convertibility of the shares of Series E into common stock will require an amendment to the Company's Articles of Incorporation which must be approved by the shareholders. The Company has agreed to seek such approval.

Patrick G. Rooney, Chairman of the Board of the Company, is the general partner of Solaris Opportunity Fund, L.P.

Transaction with IMAGIN Diagnostic Centres, Inc.

In January and February, 2005, the Company received the final \$250,000 installment of funds from the sale of \$2,000,000 worth of 10% convertible promissory notes to IMAGIN Diagnostic Centres, Inc.

EXHIBITS

- 4.18 Statement of Designation Establishing Series E Preferred Stock of Positron Corporation dated February 28, 2005.
- 10.83 Note Purchase Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund, L.P.
- 10.84 Secured Convertible Promissory Note dated March 7, 2005 in the principal amount of \$200,000 in favor of Solaris Opportunity Fund, L.P.
- 10.85 Security Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund, L.P.
- 10.86 Registration Rights Agreement dated February 28, 2005 between Positron and Solaris Opportunity Fund, L.P.
- 14.1 Code of Business Conduct and Ethics
- 31.1 Certification of Periodic Financial Report Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002*
- 32.1 Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002#

*

Filed herewith

#

Furnished herewith

FY 2004

POSITRON CORPORATION

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March 29, 2004

POSITRON CORPORATION

CODE OF BUSINESS CONDUCT AND ETHICS

I. OVERVIEW

This Code of Business Conduct and Ethics sets forth the guiding principles by which we operate our company and conduct our daily business with our customers, vendors, shareholders and with each other. It does not cover every issue that may arise, but it sets out basic principles to guide all directors, officers and employees of Positron Corporation and its subsidiaries (referred to in this Code as the "Company" or "Positron"). This Code applies to all of our directors, officers and employees (together "Covered Persons"). We expect each Covered Person to conduct him/herself accordingly and seek to avoid even the appearance of improper behavior.

We have tried to write this policy so that it is consistent with and supportive of all applicable laws. If it turns out that a policy in this Code conflicts with a law, you must comply with the law. If you have any questions about these conflicts or potential conflicts, please consult with your supervisor about how to handle the situation.

Those who violate the policies contained in this Code will be subject to disciplinary action, up to and including termination of employment. *We have provided some practical guidelines at the end of this document (Section XV) to help you understand and comply with it.*

II. COMPLIANCE WITH LAWS, RULES AND REGULATIONS

The Company's business is highly regulated and any failure to comply with all applicable regulations could have a material adverse effect on the Company's business. Moreover, obeying the law, both in letter and in spirit, is the foundation on which this Company's ethical standards are built. In addition to federal laws, we must respect and obey the laws of the cities and states in which we operate. Although we do not expect each Covered Person to know the details of each of these laws, it is important to know enough to determine when to seek advice from supervisors, managers or other appropriate personnel. You are responsible for discussing with your supervisor which laws, regulations and Positron policies apply to your position and what training you might need to understand and comply with them.

The Company will hold information and training sessions from time to time to promote compliance with laws, rules and regulations, including insider-trading laws. Please let your supervisor know if you think any particular training would be especially helpful or necessary for you in this regard.

III. CONFLICTS OF INTEREST

A. General

We expect each Covered Person to be scrupulous in avoiding any action or interest that conflicts or gives the appearance of a conflict with Positron's interests. A "conflict of interest" exists when a person's private interest interferes or is inconsistent in any way with the interests of the Company. Therefore, a conflict can arise when a Covered Person takes actions or has interests that may make it difficult to perform his or her Company work objectively and effectively. For example, having a financial or investment interest in a vendor, supplier or competitor

of the Company may constitute a conflict of interest to the extent such relationship interferes with a Covered Person's ability to act unconditionally on behalf of the Company. Conflicts of interest may also arise when a Covered Person, or members of his or her family, receive improper personal benefits as a result of the Covered Person's position in the Company.

B. Potential Conflicts of Interest Involving Directors and Executive Officers

Executive officers should provide notice to the Company's full Board of Directors prior to causing Positron to enter into transactions with relatives and friends. In addition, directors and executive officers should provide to the full Board of Directors for pre-approval, the details of any potential transaction, including charitable donations, between Positron and an entity where one or more of the Positron's officers or directors also serve as officers or directors of such entity.

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It is almost always a conflict of interest for a Company employee to serve simultaneously as an employee, consultant or director for a competitor, customer or supplier. All employees should obtain pre-approval from the Company's Chief Executive Officer prior to entering into any such relationship with another employer. The best policy is to avoid any direct or indirect business connection with our customers, suppliers or competitors, except on our behalf.

Conflicts of interest may not always be clear-cut, so if you have a question, you should consult your supervisor and, if necessary, higher levels of management. Any employee who becomes aware of a conflict or potential conflict should bring it to the attention of a supervisor, manager or other appropriate personnel or consult the procedures described in Section XV of this Code.

IV. CONFIDENTIAL INFORMATION AND INSIDER TRADING

Covered Persons who have access to confidential information or other material non-public information concerning the Company are not permitted to use or share that information for stock trading purposes or for any other purpose except the conduct of our business. (See Section X below regarding confidentiality generally). All non-public information about the Company should be considered confidential information.

In addition, it not only violates our policies but is illegal for any Covered Person to use non-public information for his/her personal financial benefit or to "tip" others who might make an investment decision on the basis of such information.

V. CORPORATE OPPORTUNITIES

In addition to our policy against conflicts of interest generally, Covered Persons are prohibited from taking for themselves personally opportunities that are discovered through the use of corporate property, information or position without the consent of the Board of Directors. No Covered Person may use corporate property, information, or position for improper personal gain, and no Covered Person may compete with the Company directly or indirectly. Covered Persons owe a duty to the Company to advance its legitimate interests when the opportunity to do so arises.

VI. COMPETITION AND FAIR DEALING

We seek to outperform our competition fairly and honestly. Stealing proprietary information (whether belonging to us or to a third party), possessing trade secret information that was obtained without the owner's consent, or inducing such disclosures by past or present employees of other companies is prohibited.

We expect and demand that each Covered Person respect the rights of and deal fairly with our customers, suppliers, competitors and fellow employees. No Covered Person may take unfair advantage of anyone through manipulation, concealment, abuse of privileged information, misrepresentation of material facts, or any other intentional unfair-dealing practice.

We expect each Covered Person to exercise due care and professionalism to avoid undue influence from current or potential customers, vendors or other business partners of the Company ("Business Partners"). The purpose of business entertainment and gifts in a commercial setting is to create goodwill and sound working relationships, not to gain unfair advantage with customers. Covered Persons should therefore take care not to accept gifts or benefits from Business Partners that might influence their activities on behalf of the Company. No gift or entertainment should ever be offered, given, provided or accepted by any Covered Person, family member or agent unless it: (1) is not a cash

gift, (2) is consistent with customary business practices, (3) is not excessive in value, (4) cannot be construed as a bribe or payoff and (5) does not violate any laws or regulations. Under no circumstances should gifts or benefits of any nature or in any amount ever be offered to or taken from representatives of federal, state or local governments or the agencies or regulatory authorities of any such governments. That includes paying for meals of the government official. Offering or accepting gifts or benefits from such representatives is contrary to Positron policy and may well violate the laws or the policies of such governments, agencies or authorities. Please discuss with your supervisor any gifts or proposed gifts which you are not certain are appropriate.

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We are firmly committed to providing equal opportunity in all aspects of employment and application for employment and to providing a workplace free from harassment of any kind. Harassment includes verbal, physical or visual conduct that creates an intimidating, offensive or hostile working environment or that interferes with work performance. Some examples of harassment include derogatory comments based on racial or ethnic characteristics, unwelcome sexual advances, or other conduct of a sexual nature which creates a hostile work environment or interferes with work performance. We encourage you to promptly report any incident of harassment to your supervisor or manager, or to any other member of management with whom you are comfortable. We will investigate every reported complaint promptly, thoroughly and confidentially, to the extent practicable, consistent with our obligation to investigate thoroughly.

VIII. HEALTH AND SAFETY

Our policies regarding health and safety generally and the use of illegal drugs and alcohol in particular are described elsewhere in our policies. The Company strives to provide each employee with a safe and healthy work environment. Each Covered Person is responsible for assisting us to maintain a safe and healthy workplace for all persons by following safety and health rules and practices and reporting accidents, injuries and unsafe equipment, practices or conditions.

Violence and threatening behavior are strictly prohibited. Covered Persons may not report to work in any condition other than in a manner ready to perform their duties, free from the influence of illegal drugs or alcohol.

IX. RECORD-KEEPING

The Company requires honest and accurate recording and reporting of information in order to make responsible business decisions and in order to properly report its activities. All of the Company's books, records, timesheets, accounts and financial statements must be maintained in reasonable detail, must appropriately reflect the Company's transactions and must conform both to applicable legal requirements and to the Company's system of internal controls and procedures. Unrecorded or "off the books" funds or assets should not be maintained unless permitted by applicable law or regulation.

Many Covered Persons regularly use business expense accounts, which must be documented and recorded accurately. If you are not sure whether a certain expense is legitimate, you should ask your supervisor or other appropriate person.

Business records and communications often become public, and we should avoid exaggeration, derogatory remarks, guesswork, or inappropriate characterizations of people and companies that can be misunderstood. This applies equally to e-mail, internal memos, and formal reports. Records should always be retained or destroyed according to the Company's record retention policies. In accordance with those policies, in the event you become aware of any litigation or governmental investigation please consult the Company's Chief Executive Officer. Any correspondence from any state or federal regulator or the Better Business Bureau, or any legal process (including without limitation subpoenas, discovery requests or deposition notices) that you receive must be immediately forwarded to the Company's Chief Executive Officer.

X. CONFIDENTIALITY OF COMPANY INFORMATION

In carrying out the Company's business, Covered Persons often learn confidential or proprietary information about the Company, its customers, prospective customers or other third parties. Each Covered Person must maintain the

confidentiality of confidential or proprietary information obtained or entrusted to him/her by the Company, except when disclosure is authorized by the Company or required by laws, regulations or legal proceedings. Confidential or proprietary information includes, among other things, any non-public information concerning the Company, including its business, financial performance, results or prospects, customer lists, employee information, terms or fees offered to particular customers, marketing or strategic plans, technology systems, or proprietary or product systems developments. The obligation to preserve confidential or proprietary information continues even after employment ends. In connection with this obligation, every Covered Person should have executed a confidentiality agreement when he or she began his or her employment with the Company.

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Each Covered Person must take precautionary measures to prevent unauthorized disclosure of confidential or proprietary information. Accordingly, such persons should take steps to ensure that business-related paperwork and documents are produced, copied, faxed, filed, stored and discarded by means designed to minimize the risk that unauthorized persons might obtain access to confidential or proprietary information.

XI. PROTECTION AND PROPER USE OF COMPANY ASSETS

All Covered Persons should endeavor to protect the Company's assets and ensure their efficient use. Theft, carelessness, and waste have a direct impact on the Company's profitability. Any suspected incident of fraud or theft should be immediately reported for investigation. In addition, we provide certain technology resources and pieces of equipment for use in the performance of business job duties. These include such obvious items as telephone (including voicemail) and access to computers, the internet and electronic mail, as well as other equipment items. These items are provided for your business use, and remain Company property. We expect that you will use our technology and resources in a manner that enhances productivity, enhances our public image, and is respectful of others, including other employees. Personal use of these items and resources should be kept to a minimum, and limited to non-work time, except in emergencies.

The obligation of Covered Persons to protect the Company's assets includes its proprietary information. Proprietary information includes intellectual property such as trade secrets, patents, trademarks, and copyrights, as well as business, marketing and service plans, customer lists, designs, databases, records, salary information and any unpublished financial data and reports. Unauthorized use or distribution of this information violates our policy. It could also be illegal and result in civil or even criminal penalties.

XII. PAYMENTS TO GOVERNMENT PERSONNEL

The U.S. Foreign Corrupt Practices Act prohibits giving anything of value, directly or indirectly, to officials of foreign governments or foreign political candidates in order to obtain or retain business. It is strictly prohibited to make such payments to government officials of any country.

In addition, the U.S. government has a number of laws and regulations regarding business gratuities which may be accepted by U.S. government personnel. The promise, offer or delivery to an official or employee of the U.S. government of a gift, favor or other gratuity in violation of these rules would not only violate Company policy but could also be a criminal offense. State and local governments, as well as foreign governments, may have similar rules.

XIII. WAIVERS OF THE CODE

Any waiver of this Code for executive officers or directors may be made only by the Board or a Board committee and will be promptly disclosed as required by law or securities regulations.

XIV. REPORTING ILLEGAL OR UNETHICAL BEHAVIOR

All of the policies we describe in this Code sound relatively straight-forward and even self-evident when recited, but can be much more difficult to recognize or apply in real time and real life. We encourage you to talk to your supervisors, managers or other appropriate personnel whenever you see something that you think may be either illegal or unethical, and particularly if you are not certain about the best course of action in a particular situation. Our policy prohibits retaliation for reports of misconduct by others made in good faith by Covered Persons, and we expect all Covered Persons to cooperate in internal investigations of misconduct. Any Covered Person may submit a good faith concern regarding questionable accounting or auditing matters without fear of dismissal or retaliation of any kind.

XV. PRACTICAL GUIDELINES

We must all work to ensure prompt and consistent action against violations of this Code. However, in some situations it is difficult to know if a violation has occurred. Since we cannot anticipate every situation that will arise, it is important that we have a way to approach a new question or problem. These are the steps to keep in mind:

§ *Make sure you have all the facts.* In order to reach the right solutions, we must be as fully informed as possible.

§ *Ask yourself: What specifically am I being asked to do? Does it seem unethical or improper?* This will enable you to focus on the specific question you are faced with, and the alternatives you have. Use your judgment and common sense; if something seems unethical or improper, it probably is.

§ *Discuss the problem with your supervisor.* This is the basic guidance for all situations. In many cases, your supervisor will be more knowledgeable about the question, and will appreciate being brought into the decision-making process. Remember that it is your supervisor's responsibility to help solve problems.

§ *You may report ethical violations in confidence and without fear of retaliation.* If your situation requires that your identity be kept secret, your anonymity will be protected. The Company does not permit retaliation of any kind against Covered Persons for good faith reports of ethical violations.

§ *Always ask first, act later:* If you are unsure of what to do in any situation, seek guidance before you act.

