

BIO KEY INTERNATIONAL INC

Form 10-K

March 11, 2009

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-K

**Annual Report Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934**

For the Fiscal Year Ended December 31, 2008

BIO-KEY INTERNATIONAL, INC.

(Exact name of registrant as specified in its charter)

DELAWARE

(State or other jurisdiction of
Incorporation or organization)

41-1741861

(IRS Employer
Identification Number)

3349 HIGHWAY 138, BUILDING D, SUITE B, WALL, NJ 07719

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(Address of Principal Executive Offices) (Zip Code)

(732) 359-1100

Issuer's telephone number, including area code.

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Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class	Name of Exchange on which Registered
Common Stock, \$0.0001 par value per share	None

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

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Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

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

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not 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-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer or a smaller reporting company. See definition of accelerated filer and large accelerated filer in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

The aggregate market value of the registrant's voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, as of the last business day of the registrant's most recently completed second fiscal quarter was \$8,305,169..

As of February 13, 2009, the registrant had 67,876,880 shares of common stock outstanding.

Documents Incorporated by Reference: None

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PRIVATE SECURITIES LITIGATION REFORM ACT

All statements other than statements of historical facts contained in this Annual Report on Form 10-K, including statements regarding our future financial position, business strategy and plans and objectives of management for future operations, are forward-looking statements. The words anticipate, believe, estimate, will, may, future, plan, intend and expect and similar expressions generally identify forward-looking statements. Although we believe our plans, intentions and expectations reflected in the forward-looking statements are reasonable, we cannot be sure they will be achieved. Actual results may differ materially from the forward-looking statements contained herein due to a number of factors. Many of these factors are set forth under the caption "Risk Factors" in Item 1A of this Annual Report and other filings with the Securities and Exchange Commission. These factors are not intended to represent a complete list of the general or specific factors that may affect us. It should be recognized that other factors, including general economic factors and business strategies, may be significant, presently or in the future. Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise.

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PART I

ITEM 1. DESCRIPTION OF BUSINESS

BIO-key International, Inc., a Delaware corporation (the Company, BIO-key, we, or us), was founded in 1993 to develop and market advanced fingerprint biometric technology and software solutions. Biometric technology is the science of analyzing specific human characteristics which are unique to each individual in order to identify a specific person from a broader population. First incorporated as BBG Engineering, the company became SAC Technologies in 1994. The BIO-key name was introduced in 2002.

We develop and market advanced fingerprint identification biometric technology and software solutions. We also deliver advanced identification solutions and information services to law enforcement departments, public safety agencies and other government and private sector customers. Our mobile wireless technology provides first responders with critical, reliable, real-time data and images from local, state and national databases.

We were among the initial pioneers in developing automated, finger identification technology that can be used without the aid of non-automated methods of identification such as a personal identification, password, token, smart card, ID card, credit card, passport, driver's license or other form of possession or knowledge based identification. This advanced BIO-key identification technology improves both the accuracy and speed of finger-based biometrics and is the only finger identification algorithm that has been certified by the International Computer Security Association (ICSA).

Since our inception in 1993, we have spent substantial time and effort in completing the development of what we believe is the most discriminating and effective commercially available finger-based biometric technology. During the past four years, our primary focus has shifted to marketing and selling this technology and completing strategic acquisitions that can help us leverage our capability to deliver identification solutions. We have built a direct sales force of professionals with substantial experience in selling technology solutions to government and corporate customers.

In 2004, BIO-key acquired Public Safety Group, Inc. (PSG), a privately held company that is a leader in wireless solutions for law enforcement and public safety markets. PSG's primary technology is PocketCop, a handheld solution that provides mobile officers, such as detectives who are not typically in their vehicles, a hand-held mobile information software solution.

Also in, 2004, BIO-key completed a transaction with Aether Systems, Inc. to purchase its Mobile Government Division (Mobile Government or AMG), a leading provider of wireless data solutions for use by public safety organizations, primarily state, local police, fire and rescue and emergency medical services organizations. Our PacketCluster mobile information software is integrated with 50 separate State/NCIC databases, as well as other state, local and federal databases. Its open architecture and its published Application Programming Interface (API) make it easy to interface with a wide range of information sources. PacketCluster products deliver real-time information in seconds, freeing dispatchers to handle more pressing emergencies.

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In 2007, BIO-key completed a transaction with ZOLL Data Systems, Inc. (ZOLL), a subsidiary of ZOLL Medical Corporation, in which ZOLL acquired substantially all of the assets related to the Company's Fire/EMS Services division.

As a result of these transactions, and as discussed in Note M to the Consolidated Financial Statements included in this report, we have organized the Company into two reporting segments: Law Enforcement and Biometrics. During the year ended December 31, 2008, the Company continued to focus on its primary objectives of increasing revenue and managing expenses, by developing leadership technology and applications and by providing its customers with high quality support and service.

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Markets

Finger-based Biometric Identification

BIO-key is a leader in finger-based biometric identification. In partnerships with OEMs, integrators, and solution providers, we provide biometric software solutions to private and public sector customers. BIO-key's patented Vector Segment Technology (VST) is the foundation for these solutions. BIO-key's WEB-key® is a cost-effective, easy-to-deploy, fingerprint-based, strong authentication system. This unique solution allows users to positively identify themselves to any application with the simple scan of their finger. This capability is a significant improvement in both convenience and security over other alternatives and provides companies with a cost-effective solution to thwart phishing attacks and comply with government regulations and legislation such as FFIEC compliance, HIPAA, HSPD-12, and the Electronic Signatures Act. BIO-key couples these capabilities with device interoperability, system flexibility and scalability. BIO-key enables the use of 40 different fingerprint sensor technologies to enroll and identify employees, customers or business partners. BIO-key has formed relationships with providers of biometric logon software like IdentiPHI, Softex, Janus Associates, Sig-Tec and Computer Associates to provide enterprise-ready SingleSignOn systems to many large companies in the US and abroad. Through its partnership with Oracle, we have integrated our technology into the entire Fusion Middleware and Identity Management software stack to offer all of Oracle customers a scalable biometric authentication solution. Also, BIO-key has integrated VST to a pure physical access solution in NextGenID, which has been deployed across the US at many leading companies.

- ***Growth potential*** As the provider of the core technology, BIO-key's greatest growth potential for this market is as a partner with companies that offer applications that address growing concerns particularly about identity theft and anti-terrorism.

For example, BIO-key has implemented programs that will enable biometric logical and physical access. These include working with IdentiPHI to provide strong network based authentication on BIO-key technology; and with the Pegasus Program to authenticate users accessing a nationwide information-sharing system designed by and for the nation's sheriffs. These represent the kind of partnership-based opportunities BIO-key may see in the finger-based biometric market.

In parallel, BIO-key is both strengthening security and improving user and system administrator convenience by integrating biometric log-in, as well as two-factor authentication, with its law enforcement suite of solutions. These capabilities provide BIO-key with the ability to address the latest CJIS security requirements providing market leadership in this critical area. This is a true differentiator to potential new customers, and creates add-on opportunities with existing customers. Fingerprint identification of First Responders has been identified as a way to facilitate disaster recoveries and these integrated projects have been receiving funding from the Department of Homeland Security. By promoting our integration of fingerprints for this use, we can capitalize on our vast customer base and drive new revenue.

Law Enforcement

BIO-key's InfoServer, MobileCop and PocketCop law enforcement products are a leading wireless mobile data communications client/server solution, implemented in more than 750 agencies in 43 states. Providing immediate

access to mission-critical data and enabling in-field reporting, BIO-key software keeps officers on the street, improving their productivity and enhancing officer safety. BIO-key solutions are able to run across any and all wireless infrastructures and integrate with virtually all computer-aided dispatch (CAD) and records management systems. This makes us a leader in multi-agency cooperation and interoperability, which are absolutely critical in times of large-scale natural and terrorist threats.

- *Growth potential* BIO-key's large base of more than 750 law enforcement agencies continues to be a strength that helps leverage additional sales from both existing customers and new customers.

Public Safety remains one of the largest areas of state and local government IT investment. A 2007 Gartner study entitled *Dataquest Insight: State and Local Government Market Environment, 2007*, reported total IT spending of \$7.4 billion in 2007, with an expected 18% growth over the next 3 years, and spending for voice/data communications for public safety

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the market segment for MobileCop and PocketCop and related add-on products expected to total \$5.5 billion over the next 5 years

A key opportunity is the growing awareness of the need for multi-agency interoperability. In these situations, BIO-key offers:

- BIO-key's LE products, which can run on any and all wireless infrastructures. BIO-key also has had success implementing seamless roaming across multiple infrastructures for multi-agency consortiums.

- BIO-key's open architecture.

- BIO-key's experience in large, complex and multi-agency implementations, such as Hamilton County, Ohio Sheriff's Office and Pennsylvania State Police.

- New add-on applications:
 - Data sharing of RMS information InfoExchange
 - GPS & AVL Mapping MobileCop Navigator
 - Handheld Mobile Solutions for BlackBerries and PDAs
 - Field Reporting Mobile Office
 - New ease of use and administration features for hosting multi agencies at lower costs

These capabilities position BIO-key well to work with leading CAD vendors, even with vendors that have mobile data solutions but do not have the depth of interoperability capability that BIO-key offers.

An additional growth area is the introduction of BIO-key's finger-based biometric identification to law enforcement. In addition to now offering biometric login to our traditional InfoServer product, we have introduced the IdentityMatch fingerprint identification solution, which lets law enforcement personnel capture fingerprints in the field. Using BIO-key's patented Vector Segment Technology, IdentityMatch analyzes and categorizes fingerprints the same way a fingerprint expert would only faster. IdentityMatch also enables multiple law enforcement agencies to share fingerprint data with other agencies. This

powerful tool, built on BIO-key's understanding of law enforcement requirements and its fingerprint technology, presents opportunities for the law enforcement business segment in the coming year.

Products

BIO-key® operates in two major segments—biometrics and law enforcement. These segments are described below and a list of products in each line is noted.

Biometrics

The Company's biometric identification technology improves both the accuracy and speed of finger-based biometrics. The Company's proprietary biometric technology extracts unique data from a fingerprint and uses it to positively identify an individual. The technology has been built to be completely scalable to handle databases containing millions of fingerprints. BIO-key achieves the highest levels of discrimination without requiring any other identifying data—like a userID, smart card, or token. BIO-key's core technology supports interoperability on over 40 different commercially available readers. This interoperability is a key differentiator for BIO-key in the biometric market. BIO-key has full support for industry standards and recently received National Institute of Standards and Technology (NIST) certification on its ability to support HSPD-12 supported INCITS-378 templates. We believe we have the largest deployment of ISO standard templates in the world with over 300 million created in Bangladesh. Extending our products to support standards enables BIO-key to participate in large government projects like Transportation Workers Identification Card(TWIC), Registered Traveler projects, PIV initiatives, and FIXS consortium solutions. We believe our fingerprint identification technology has a broad range of information security and access control applications, including:

- Securing Internet sites and electronic transactions
- Securing access to logical networks and applications

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- Securing access to buildings and restricted areas
- Providing fast, accurate member identification services
- Securing mobile devices such as biometric enabled handhelds and PDA's
- Preventing identity theft through positive user identification and false alias validation

Biometric Products:

BIO-key's finger identification algorithm Vector Segment Technology (VST) is the core intellectual property behind its full suite of biometric products that include:

- **Vector Segment Technology SDK (VST)** BIO-key's biometric development kit that provides developers the ability to take advantage of a highly accurate, device interoperable algorithm. VST is available as a low level SDK for incorporation into any application architecture to increase security while not sacrificing convenience. VST runs on Windows, Linux or Solaris systems.
- **True User Identification®** BIO-key's biometric identification solution that offers large scale one to many user lookup with nothing but a single fingerprint. This solution enables customers to perform false alias checks and manage fraudulent access to systems. True User Identification leverages commercially available databases, like Oracle, to scale the identification capabilities to millions of users. The solution also runs on commercially available hardware making it truly scalable for any size system.
- **WEB-key®** BIO-key's biometric security platform for managing fingerprint authentication across unprotected networks like the internet. It extends all features and functionalities of the VST algorithm to customers looking to add an enhanced level of security to their thin client and client/server applications. WEB-key currently is supported by both Windows and Linux operating systems.

- **Biometric Service Provider** BIO-key provides support for the BioAPI (a standards based solution meeting worldwide needs) for a compliant interface to applications using biometrics for verification and identification. BIO-key enhances the traditional use of the BioAPI by adding support for CE devices, supporting identification calls and also providing a single user interface for multiple fingerprint readers.
- **ID Director** BIO-key's solution for single sign on integration with Computer Associates SiteMinder, Oracle's Fusion Middleware SSO, and other solutions, utilizing the power and security of WEB-key. This solution provides a simple to implement, custom authentication scheme for companies looking to enhance authentication. ID Director can easily add a level of security and convenience to the transaction level of any application.

Law Enforcement

- **MobileCop** A complete wireless query and messaging application that puts the power of mobile and wireless technology to work for agencies of every size, MobileCop sets the standard for mobile law enforcement. Providing real-time retrieval of motor vehicle, warrant and criminal history information, powerful mobile integration capabilities, and an intuitive user interface, MobileCop delivers the most in performance and it's easy to see why over 750 law enforcement agencies around the country have deployed MobileCop for fast and secure access to critical information in the field
- **PocketCop®** PocketCop is a software solution that provides law enforcement personnel with instantaneous access to criminal, civil, and local database information in a wireless environment. PocketCop is a handheld application that provides access to state and federal databases over the wireless network for Windows Mobile, and RIM OS devices. Using a portable wireless handheld device and the PocketCop application software, an authorized user can access suspect information such as wanted status, warrant status, vehicle registration and driver license status. PocketCop technology has been deployed in numerous police agencies in the United States, including the Oklahoma County (OK) Sheriff's Office and the Franklin County (OH) Sheriff's Office. We expect our PocketCop

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sales to benefit from the increase in the availability and use of BlackBerry and Windows Mobile smartphones in public safety.

- **IdentityMatch** a web-based fingerprint biometric solution that allows various criminal custody agencies to quickly identify criminals at all points along the chain-of-custody throughout the criminal justice process. This solution enables the sharing of information between trusted entities and personnel, from the booking agencies to parolee oversight. IdentityMatch allows law enforcement agencies to capture and store fingerprints locally and to identify subjects by matching their fingerprint against those stored in the database, securely and in real time. Fingerprints can be captured using a live scan device from existing 10-print cards or through a wide variety of inexpensive commercially available fingerprint readers. This is an AFIS companion, rather than a replacement product, designed to maximize the value of fingerprint data and also to provide a new level of safety for the law enforcement personnel.

ID-Match is the web based client front-end application for the IdentityMatch system solution. It is a browser based application that retrieves detailed fingerprint records such as LiveScan, Rolled 10-print and Latent fingerprint information and displays criminal aliases by fingerprint match along with detailed information of the actual fingerprint images.

ID-Mobile provides for wireless in the field identification of suspects. This application can be used in mobile laptop computers or a convenient handheld device. The features and functionality of this application are ideal for law enforcement patrol, transport vehicles, motorcycle and bike patrols, mounted and foot patrols, as well as water patrols; wherever a versatile handheld biometric reader would be essential for true suspect identification.

ID-Track ensures the true identification, tracking and management of criminals once they enter the criminal handling continuum. From pre-booking to parolee management ID-Track provides true suspect identification. In addition to validating true criminal identity it archives data for a historical review of enrollments and inmate activity for report query (under development).

ID-Visit verifies the identity of visitors registered for visitation rights to incarcerated criminals. ID-Visit can greatly reduce registration time for subsequent visits and ensures compliance with a facility's visitor policy. A history of visitor activity is maintained for historical review and report query. This application is also helpful to identify the access of pre-approved personnel such as volunteers, Chaplains, teachers, etc. (under development).

BIO-key also provides a number of optional features designed to augment the core Law Enforcement products. These include:

- **Field Interview Tracker** - enables personnel to capture field contact information. The data is stored in a searchable database where it can be located quickly. Police agencies can create online contact forms that meet their specific needs and multiple agencies can share information while using their own forms and procedures.

- **Patrol Journal** - an automated system to electronically capture and record users' daily activities, such as patrol area assignments. With Patrol Journal, statistical and summary management reports provide an accurate picture of time spent by field personnel.
- **TStop** - was developed to enable law enforcement agencies to comply with state mandated and voluntary traffic stop reporting. Law enforcement personnel can capture the required information on their mobile computer and transmit it to the server where it is stored for future report generation.
- **State Crash Report** - enables personnel to use their mobile computer to collect data needed for their state's crash report. This data can be wirelessly transmitted to a server for supervisor review and approval. Once complete the report can be printed in the state's format. Selected states are supported.
- **InfoServer** - BIO-key's solution for an agency's central messaging switch for application software service, State/NCIC interfaces, Computer Aided Dispatch (CAD) and Records Management Software (RMS) interfaces, data

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sharing and other applications.

- **Multiple Application Programming Interface (API)** - allows an agency to have multiple ports to the server to accommodate disparate interfaces. These multiple API ports are in addition to the one port that is inherent in the server as well as the State/NCIC interface.
- **InfoExchange** provides data from local records management system (RMS) and other databases directly to the mobile data user. Local RMS systems often contain information and images (such as mugshots) not available from state and federal databases.
- **MobileCop® Navigator** Based on Microsoft MapPoint, MobileCop Navigator provides easy-to-use mapping features, such as in-car display of location and driving directions generated automatically from CAD call information, without extensive map creation or maintenance of a full scale GIS mapping system.

Partner applications include:

- ***iPass EMP software*** enables wireless, remote software updates to dramatically reduce administrative time and expense, and eliminate version lags.

Current Business Plan

BIO-key's current business plan is to:

- **License its core technology VST and True User Identification®** to original equipment manufacturers, systems integrators, and application developers who develop products and applications that utilize its biometric finger matching solutions.
- **License WEB-key®,** the Company's security centric web-based biometric authentication solution.

- **License its wireless software solutions for the public safety market** directly to counties, cities and towns across North America as well as through systems integrators and resellers.
- **Integrate its core technology competencies** to leverage new business opportunities and develop new markets for its innovative products.

Competition

The markets for BIO-key products and technologies are developing and are characterized by intense competition and rapid technological change. No assurance can be given that our competitors will not develop new or enhanced technologies that will offer superior price, performance, or features, or render BIO-key products or technologies obsolete.

Biometrics

In addition to companies that provide existing commonplace methods of restricting access to facilities and logical access points such as pass cards, PIN numbers, passwords, locks and keys, there are numerous companies involved in the development, manufacturing and marketing of fingerprint biometrics products to commercial, government, law enforcement and prison markets. These companies include, but are not limited to, Cogent, NEC, L-1 Identity Solutions, Sagem-Morpho, and Bioscrypt.

The most recent automated fingerprint identification product sales in the market have been deployed for government and law enforcement applications, typically at more cost than BIO-key's products and licensing arrangements. Although most companies that target consumer application markets have completed development of their biometric products, such technologies have not been widely accepted in the commercial markets to date. Most companies competing for commercial opportunities are in the business of selling scanning devices and tie their algorithm to a specific device. BIO-key has created a device independent algorithm that provides flexibility in choosing the correct device and optical or tactile sense to fit the

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application served.

BIO-key has found that commercial markets have been slow to widely purchase biometrics as a viable alternative to their current security methods. As a result, the primary competition for biometric technology consists of traditional security methods such as passwords, PINs, cards and tokens.

With respect to competing biometrics technologies, each has its strength and weaknesses and none has emerged as a market leader:

- *Fingerprint identification* is generally viewed as inexpensive and non-intrusive.
- *Iris scanning* is viewed as accurate, but can be expensive and inconvenient to use.
- *Facial recognition* has recently received substantial attention; however, it can have accuracy limitations and be highly dependent on ambient lighting conditions, angle of view and other factors.

The market for biometric technology is evolving. Computer breaches, identity theft, phishing and other events in the recent past are driving a large-scale shift to biometric deployments. In addition, companies such as IBM, Dell, Gateway, MPC, Samsung and HP have all introduced computers with integrated finger scanning devices to complement the conventional username/password technique since it is highly susceptible to hackers and security breaches. BIO-key supports these integrated devices for broader enterprise level security solutions.

Law Enforcement

The public safety market comprises agencies at all government levels, with a range of users, from a few to many hundreds. BIO-key competitors in the mobile data market include Computer Aided Dispatch/Records Management companies such as New World, Tiburon and Motorola. Each has comprehensive CAD and/or RMS offerings and has augmented those with their own mobile data and field reporting solutions. While these mobile data solutions may not be as functionally rich as the BIO-key suite of products, they are sometimes less expensive when bundled with the CAD/RMS offerings. They also provide a complete solution from one vendor.

Marketing and Distribution

BIO-key's marketing and distribution efforts comprise the following major initiatives:

- During the past year, BIO-key has strengthened its alliance with Oracle and has been recognized as a Certified Partner in the Oracle Partner Network. BIO-key supports the Oracle e-business suite of applications and provides the biometric enabler for the Oracle Single Sign on product. As an Oracle development partner, BIO-key provides the underlying database used for true user identification and on demand alias checking. As a development partner, BIO-key participates in Oracle Trade Shows such as Oracle Open World and Oracle Apps World.
- BIO-key has strategic alliances with technology leaders including Oracle, Computer Associates, Hewlett Packard, Dell, Verizon, Sprint/Nextel, AT&T Wireless, and others.
- BIO-key is also promoting biometric technology and its offerings through industry trade shows, public speaking engagements, press activities and partner marketing programs
- BIO-key is directing licensing efforts to original equipment manufacturers, application developers and system integrators.
- BIO-key is building a reseller, integrator and partner network as well as a direct sales team.

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Addressing the Market

Following are the specific marketing/sales programs in place:

- *Direct Selling Efforts* BIO-key now has a base of area sales directors who are responsible for the law enforcement market. This team of sales professionals brings extensive experience in technical solution and relationship-based selling. They are supported by a pre-sales team that includes system engineering and proposal management and post-sales program management, implementation and training professionals. Included in this team are individuals who are themselves former police officers.

BIO-key's direct sales force also includes area sales directors for the OEM and Federal Government markets, each of whom brings not only extensive sales experience but also expertise in emerging biometric technologies. The BIO-key sales force is rounded out by Inside Sales, which is responsible for maintaining and supporting our existing install base, acting as a front-line support for any inquiries on our product line, and facilitating activities that make the field team more productive.

- *Conferences and Trade Shows* BIO-key attends and actively participates in various product-related conferences and trade shows in the technology and security industries to generate market awareness of biometric and wireless mobile data technology generally and our offerings specifically. BIO-key's public safety software often is featured at our business partners' booths at these events, showcasing the interoperability of the two products.

- *Strategic Alliance* BIO-key's strategic alliances and reseller agreements with other vendors play a significant role in our overall sales efforts. In the past year, BIO-key has initiated and bolstered numerous important and promising long-term relationships. Just a few examples include:

- BIO-key is partnering with AT&T Wireless, the largest wireless carrier in the country, to first responders in a seven-county Tennessee consortium of fire, police and EMS agencies in access to mission critical information using BIO-key's MobileCop solution in conjunction with AT&T Wireless's EDGE wireless data network

- BIO-key is partnering with Research in Motion (RIM) and Sprint to increase the market penetration of PocketCop on BlackBerry smartphones through a national educational campaign and a promotional offer.

- BIO-key is an active member in the CA and Oracle partner programs, delivering authentication and identification solutions integrated with their Identity Management platform to all of their customers worldwide.

- *Reseller Relationships* BIO-key has established reseller relationships with companies that resell BIO-key public safety software.

Licensing

BIO-key targets both Internet infrastructure companies and large portal providers as possible licensees for its WEB-key® solution. On the Internet infrastructure side, BIO-key seeks to partner with Internet server manufacturers, providers of database and data warehouse engine software, horizontally positioned application engines, firewall solution providers and peripheral equipment manufacturers. On the portal side, BIO-key is targeting financial service providers such as credit and debit card authorization and issuing institutions, Internet retailers, business-to-business application service providers (ASPs) and corporate intranets. In the past four years, BIO-key has undertaken a WEB-key ® and VST direct selling effort, and entered into license agreements with OEMs and system integrators to develop applications for distribution to their respective customers.

BIO-key is also addressing the security needs of application providers in the following vertical markets:

- *Government* Using BIO-key s technology, Northrup Grumman deployed an application within the Department of Defense to cross-credential visitors and contractors to certain military bases.

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- *Education* Educational Biometric Technologies and Identometrics have incorporated BIO-key technology to enable school children to pay for school lunch programs and checkout library books using their fingerprints. VST technology enables schools to enroll these children and reduces the administrative costs of managing passwords and collecting payments.
- *Commerce:* ChoicePoint has implemented a check cashing solution using BIO-key's VST technology to reduce fraud and identity theft.
- *Patient Records and Information Management:* Allscripts has integrated and deployed BIO-key's biometric solution as a standard part of its Enterprise EHR solution. The integrated solution has been deployed at George Washington University, Holzer Clinic, Medisync, and many other Allscripts customers. HBOC, one of the largest healthcare patient records and information management companies, has integrated BIO-key technology into their portal and has deployed their solution in a pilot for the Baptist Hospital System. Also, the Indiana Blood Center is incorporating BIO-key's large scale identity assurance platform to provide a safe, secure and convenient means for donors to confirm their identity.
- *Financial:* BIO-key is working with several companies focusing on financial applications such as point of sale systems and employee trusted identification cards, as well as customer facing applications over the Internet. BIO-key has also begun work with several financial institutions to incorporate its technology for secure access to money transfers for institutional customers.

Intellectual Property Rights

We believe that our intellectual property is important to our biometric and law enforcement segments:

- *Patents* our biometrics segment uses patented technology and trade secrets developed or acquired by us.

In May 2005, the U.S. Patent & Trademark Office issued us a patent for our Vector Segment fingerprint technology (VST), BIO-key's core biometric analysis and identification technology.

On August 29 2006, BIO-key announced that the Company's patent for biometric identification indexing, a core feature of its VST software, has been granted in Europe. In addition, a WEB-key® authentication security patent for Systems and Methods of Secure Biometric Authentication has been issued in South Africa. These patents enhance the worldwide protection of BIO-key's technology. The European patent for VST, which

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provides BIO-key with protection of its intellectual property in Europe, was issued on March 29, 2006 and covers a similar set of claims for a patent BIO-key was granted in 2005 in the United States. BIO-key expects the patent for Secure Biometric Authentication, issued in South Africa on April 26, 2006, to be issued in the United States in the near future

On October 3, 2006, BIO-key announced that the Company's patent for a biometric authentication security framework has been granted by the U.S. Patent & Trademark Office. The patent (No. 7,117,356) was issued to BIO-key for a biometric authentication security framework that enhances commercial and civil biometric use. BIO-key's authentication security framework protects privacy and security while also facilitates ease of use of biometric systems. The technology that this patent is based on is the foundation for authentication security as incorporated in BIO-key's WEB-key® product line. WEB-key is a mature enterprise authentication solution that functions in a wide variety of application environments. The solution supports a variety of implementation alternatives including card technologies for two-factor authentication and also supports single-factor authentication. Partners and customers implementing BIO-key's WEB-key software to provide convenient and secure user identity include a number of institutions including the Allscripts Healthcare Solutions, American Association of Medical Colleges, Empresa de Telecomunicaciones de Bogotá (Columbia) and Iomedex Corporation.

On January 11, 2007, BIO-key announced that the U.S. Patent & Trademark Office has issued US patent No. 7,155,040 covering BIO-key's unique image processing technology, which is critical for enhancing information used in the extraction of biometric minutiae. The issued patent protects a critical part of an innovative four-phase image enhancement process developed by BIO-key, and represents the third U.S. patent granted to the company for its biometric technology.

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On April 15, 2008, BIO-key announced that the U.S. Patent and Trademark Office has issued US patent No. 7,359,553 covering BIO-key's image enhancement and data extraction core algorithm components. The solution protected under this recently issued patent provides the capability to quickly and accurately transform a fingerprint image into a computer image that can be analyzed to determine the critical data elements

On October 15, 2008 BIO-key announced that the U.S. Patent and Trademark Office has issued US patent No. 7,415,605 for the company's Biometric Identification Network Security method. The solution protected under this recently issued patent provides a defense against hackers and system attacks, while leveraging the industry standard Trusted Platform Module (TPM) specification for encryption key management.

On December 3, 2008 BIO-key announced that the U.S. Patent and Trademark Office has issued US patent No. 7,454,624 for the company's Match Template Protection within a Biometric Security System method. The solution protected under this recently issued patent limits the scope of enrollment templates usage and also eliminates the need for revocation or encryption processes, which can be expensive and time consuming.

Additionally, we have a number of U.S. and foreign patent applications in process related to this intellectual property.

- *Trademarks* We have registered our trademarks (BIO-key , True User Identification , WEB-key , PacketCluster , PacketCluster Patrol , PacketWriter , PocketCop , VirtualCop , MobileCop and the design mark Cerulean , with the U.S. Patent & Trademark Office. We have also applied for trademarks for Cerulean and MobileSRO, a mobile data solution for school and campus security .
- *Copyrights and trade secrets* We take measures to ensure copyright and license protection for our software releases prior to distribution. When possible, the software is licensed in an attempt to ensure that only licensed and activated software functions to its full potential. We also take measures to protect the confidentiality of our trade secrets.

Research and Development

Our research and development efforts are concentrated on enhancing the functionality, reliability and integration of our current products as well as developing new and innovative products for biometrics and law enforcement. Although BIO-key believes that its identification technology is one of the most advanced and discriminating fingerprint technologies available today, the markets in which BIO-key compete are characterized by rapid technological change and evolving standards. In order to maintain its position in the market, BIO-key will continue to upgrade and refine its existing technologies. In 2006, BIO-key announced the launch of IdentityMatch, our fingerprint identification system. IdentityMatch offers a tool for agencies to store and search fingerprints and the associated demographic data, the ability to compare new prints with those previously captured as a low-cost AFIS alternative or to be used for a wide variety of routine identification transactions not supported by AFIS. IdentityMatch is currently being tested by a number of customers.

During the fiscal years ended December 31, 2008 and 2007, BIO-key spent approximately \$4,489,000 and \$4,995,000 respectively, on research, development and engineering. BIO-key's limited customer base during that time did not directly bear these costs, which were principally funded through outside sources of equity and debt financing.

Government Regulations

BIO-key is not currently subject to direct regulation by any government agency, other than regulations generally applicable to businesses or related to specific project requirements. In the event of any international sales, the company would be subject to various domestic and foreign laws regulating such exports and export activities.

Environmental Regulations

As of the date of this report, BIO-key has not incurred any material expenses relating to our compliance with federal, state, or local environmental laws and does not expect to incur any material expenses in the foreseeable future.

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Employees and Consultants

As of February 13, 2009, BIO-key currently employed forty-two (42) individuals on a full-time basis: twenty-three (23) in engineering, customer support, research and development; eight (8) in finance and administration; and eleven (11) in sales and marketing. BIO-key also uses the services of nine (9) consultants (full and part-time), who provide engineering, finance, and technical services.

ITEM 1A. RISK FACTORS

Set forth below are the risks that we believe are material to our investors. This section contains forward-looking statements. You should refer to the explanation of the qualifications and limitations on forward-looking statements appearing just before our Description of Business section above.

Business and Financial Risks

Based on our lack of significant revenue since inception and recurring losses from operations, our auditors have included an explanatory paragraph in their opinion as to the substantial doubt about our ability to continue as a going concern.

Due to, among other factors, our history of losses (excluding gains from valuation changes in embedded derivatives) and limited revenue, our independent auditors have included an explanatory paragraph in their opinion for the year ended December 31, 2008 as to the substantial doubt about our ability to continue as a going concern. Our financial statements have been prepared in accordance with accounting principals generally accepted in the United States, which contemplate that we will continue to operate as a going concern. Our financial statements do not contain any adjustments that might result if we are unable to continue as a going concern.

Since our formation, we have historically generated minimal revenue and have sustained substantial operating losses.

As of December 31, 2008, we had negative working capital of approximately \$4,100,000 and an accumulated deficit of approximately \$54,781,000. Since our inception, we have focused almost exclusively on developing our core technologies and, until the fourth quarter of 2004 had not generated any significant revenue. In order to increase revenue, we have developed a direct sales force and anticipate the need to retain additional sales, marketing and technical support personnel and may need to incur substantial expenses. We cannot assure you that we will be able to secure these necessary resources, that a significant market for our technologies will develop or that we will be able to achieve our targeted revenue.

Our biometric technology has yet to gain widespread market acceptance and we do not know how large of a market will develop for our technology.

Biometric technology has received only limited market acceptance, particularly in the private sector. Our technology represents a novel security solution and we have not yet generated significant sales. Although recent security concerns relating to identification of individuals has increased interest in biometrics generally, it remains an undeveloped, evolving market. Biometric based solutions compete with more traditional security methods including keys, cards, personal identification numbers and security personnel. Acceptance of biometrics as an alternative to such traditional methods depends upon a number of factors including:

- the reliability of biometric solutions
- public perception regarding privacy concerns
- costs involved in adopting and integrating biometric solutions

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For these reasons, we are uncertain whether our biometric technology will gain widespread acceptance in any commercial markets or that demand will be sufficient to create a market large enough to produce significant revenue or earnings. Our future success depends, in part, upon business customers adopting biometrics generally, and our solution specifically.

Biometric technology is a new approach to Internet security which must be accepted in order for our WEB-key ® solution to generate significant revenue.

Our WEB-key ® authentication initiative represents a new approach to Internet security which has been adopted on a limited basis by companies which distribute goods, content or software applications over the Internet. The implementation of our WEB-key ® solution requires the distribution and use of a finger scanning device and integration of database and server side software. Although we believe our solutions provide a higher level of security for information transmitted over the Internet than existing traditional methods, unless business and consumer markets embrace the use of a scanning device and believe the benefits of increased accuracy outweigh implementation costs, our solution will not gain market acceptance.

Our software products may contain defects which will make it more difficult for us to establish and maintain customers.

Although we have completed the development of our core biometric technology, it has only been used by a limited number of business customers. Despite extensive testing during development, our software may contain undetected design faults and software errors, or bugs that are discovered only after it has been installed and used by a greater number of customers. Any such defect or error in new or existing software or applications could cause delays in delivering our technology or require design modifications. These could adversely affect our competitive position and cause us to lose potential customers or opportunities. Since our technologies are intended to be utilized to secure physical and electronic access, the effect of any such bugs or delays will likely have a detrimental impact on us. In addition, given that biometric technology generally, and our biometric technology specifically, has yet to gain widespread acceptance in the market, any delays would likely have a more detrimental impact on our business than if we were a more established company.

While we have commenced a significant sales and marketing effort, we have only begun to develop a significant distribution channel and may not have the resources or ability to sustain these efforts or generate any meaningful sales.

In order to generate revenue from our biometric products, we are dependent upon independent original equipment manufacturers, system integrators and application developers, which we do not control. As a result, it may be more difficult to generate sales.

We market our technology through licensing arrangements with:

- Original equipment manufacturers, system integrators and application developers which develop and market products and applications which can then be sold to end users

- Companies which distribute goods, services or software applications over the Internet

As a technology licensing company, our success will depend upon the ability of these manufacturers and developers to effectively integrate our technology into products and services which they market and sell. We have no control over these licensees and can not assure you that they have the financial, marketing or technical resources to successfully develop and distribute products or applications acceptable to end users or generate any meaningful revenue for us. These third parties may also offer the products of our competitors to end users.

We derive the majority of our revenue from government contracts, which are often non-standard, involve competitive bidding, may be subject to cancellation with or without penalty and may produce volatility in earnings and revenue.

Most of our business involves providing products and services under contracts with U.S. federal, state and local government agencies. Obtaining contracts from government agencies is challenging, and government contracts often include provisions that are not standard in private commercial transactions. For example, government contracts may:

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- include provisions that allow the government agency to terminate the contract without penalty under some circumstances;
- be subject to purchasing decisions of agencies that are subject to political influence;
- contain onerous procurement procedures; and
- be subject to cancellation if government funding becomes unavailable.

Securing government contracts can be a protracted process involving competitive bidding. In many cases, unsuccessful bidders may challenge contract awards, which can lead to increased costs, delays and possible loss of the contract for the winning bidder.

We face intense competition and may not have the financial and human resources necessary to keep up with rapid technological changes, which may result in our technology becoming obsolete.

The Internet, facility access control and information security markets are subject to rapid technological change and intense competition. We compete with both established biometric companies and a significant number of startup enterprises as well as providers of more traditional methods of access control. Most of our competitors have substantially greater financial and marketing resources than we do and may independently develop superior technologies, which may result in our technology becoming less competitive or obsolete. We may not be able to keep pace with this change. If we are unable to develop new applications or enhance our existing technology in a timely manner in response to technological changes, we will be unable to compete in our chosen markets. In addition, if one or more other biometric technologies such as voice, face, iris, hand geometry or blood vessel recognition are widely adopted, it would significantly reduce the potential market for our fingerprint identification technology.

We depend on key employees and members of our management team, including our Chairman of the Board and Chief Executive Officer, in order to achieve our goals. We cannot assure you that we will be able to retain or attract such persons.

A loss of our current Chairman of the Board of Directors or Chief Executive Officer could severely and negatively impact our operations. Our consulting contract with Thomas J. Colatosti, our Chairman of the Board, and acting Chief Financial Officer, expires in November 2009. Mr. Colatosti continues to assist the Company in the areas of strategic planning and corporate finance. In addition, we have an employment contract with Michael W. DePasquale, our Chief Executive Officer, through May 2009. Although the contract does not prevent him from resigning, it does contain confidentiality and non-compete clauses which are intended to prevent him from working for a competitor within one year after leaving our Company. Our success depends on our ability to attract, train and retain employees with expertise in developing, marketing and selling software solutions. In order to successfully market our technology, we will need to retain additional engineering, technical support and marketing personnel. The market for such persons remains highly competitive and our limited financial resources will make it more difficult for us to recruit and retain qualified persons.

We can not assure you that the intellectual property protection for our core technology provides a sustainable competitive advantage or barrier to entry against our competitors.

Our success and ability to compete is dependent in part upon proprietary rights to our technology. We rely primarily on a combination of patent, copyright and trademark laws, trade secrets and technical measures to protect our propriety rights. We have filed a patent application relating to both the optic technology and biometrics solution components of our technology wherein several claims have been allowed. Over the last few years, the U.S. Patent Office has issued us a series of patents for our Vector Segment fingerprint technology (VST), and our other core biometric analysis and identification technologies. We can not assure you that any additional patents will be issued or that we will have the resources to protect any patent from infringement. Although we believe our technology does not currently infringe upon patents held by others, we can not assure you that such infringements do not exist or will not exist in the future.

We may need to obtain additional financing to execute our business plan, which may not be available. If we are unable to raise additional capital or generate significant revenue, we may not be able to continue operations.

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Since our inception, we have not generated significant, recurring revenue (other than revenue from acquired businesses) and have experienced substantial losses. In January 2006 we received approximately \$1,000,000 in a private placement convertible debt offering, and in August 2006 we raised approximately \$2,000,000 in gross proceeds through a private issuance of equity securities, of which \$1,500,000 was received in cash and \$500,000 was paid by an exchange of rights to declared and unpaid dividends. In May 2007 we received approximately \$1,800,000 in net proceeds from the sale of our Fire/EMS Services division.

If we are unable to generate sufficient revenue to meet our goals, we will need to obtain additional third-party financing to (i) conduct the sales, marketing and technical support necessary to execute our plan to substantially grow operations, increase revenue and serve a significant customer base; and (ii) provide working capital. Therefore, we may need to obtain additional financing through the issuance of debt or equity securities, or to restructure our financial position through similar transactions to those consummated during 2006 and 2007.

We cannot assure you that we will ever be able to secure any such financing on terms acceptable to us. If we cannot obtain such financing, we may not be able to execute our business plan or continue operations.

We may not achieve sustainable profitability with respect to the law enforcement and biometric components of our business if we are unable to maintain, improve and develop the wireless data services we offer.

We believe that our future business prospects depend in part on our ability to maintain and improve our current services and to develop new ones on a timely basis. Our services will have to achieve market acceptance, maintain technological competitiveness and meet an expanding range of customer requirements. As a result of the complexities inherent in our service offerings, major new wireless data services and service enhancements require long development and testing periods. We may experience difficulties that could delay or prevent the successful development, introduction or marketing of new services and service enhancements. Additionally, our new services and service enhancements may not achieve market acceptance. If we cannot effectively develop and improve services we may not be able to recover our fixed costs or otherwise become profitable.

Our law enforcement and biometric division depends upon wireless networks owned and controlled by others.

If we do not have continued access to sufficient capacity on reliable networks, we may be unable to deliver services and our sales could decrease. Our ability to grow and achieve profitability partly depends on our ability to buy sufficient capacity on the networks of wireless carriers such as Verizon Wireless, Bell South Corporation, Metrocall, Motient and AT&T Wireless and on the reliability and security of their systems. All of our services are delivered using airtime purchased from third parties. We depend on these companies to provide uninterrupted and bug free service and would not be able to satisfy our customers' needs if they failed to provide the required capacity or needed level of service. In addition, our expenses would increase and our profitability could be materially adversely affected if wireless carriers were to increase the prices of their services. Our existing agreements with the wireless carriers generally have one-year terms. Some of these wireless carriers are, or could become, our competitors and if they compete with us they may refuse to provide us with their services.

New laws and regulations that impact our law enforcement and biometric division could increase our costs or reduce our opportunities to earn revenue.

We are not currently subject to direct regulation by the Federal Communications Commission or any other governmental agency, other than regulations applicable to businesses in general. However, in the future, we may become subject to regulation by the FCC or another regulatory agency. In addition, the wireless carriers who supply us airtime and certain of our hardware suppliers are subject to regulation by the FCC and regulations that affect them could increase our costs or reduce our ability to continue selling and supporting our services.

If we fail to adequately manage our resources, it could have a severe negative impact on our financial results or stock price.

We could be subject to fluctuations in technology spending by existing and potential customers. Accordingly, we will have to actively manage expenses in a rapidly changing economic environment. This could require reducing costs during economic downturns and selectively growing in periods of economic expansion. If we do not properly manage our resources in response to these conditions, our results of operations could be negatively impacted.

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Our obligations to the holders of our outstanding preferred stock may adversely affect our ability to enter into potential significant transactions with other parties.

We will need to obtain the consent of the holders of a majority of the then outstanding shares of our convertible preferred stock before we can take certain actions, including the following:

- a sale or other disposition of any material assets;
- an acquisition of a material amount of assets;
- engaging in a merger, reorganization or consolidation; or
- incur or guaranty any indebtedness in excess of \$50,000.

Accordingly, unless we obtain such consent, we may not be able to enter into certain transactions.

Risks Related To Our Common Stock

We have issued a substantial number of securities that are convertible into shares of our common stock which will result in substantial dilution to the ownership interests of our existing shareholders.

As of December 31, 2008, approximately 67,691,000 shares of our common stock were reserved for issuance upon exercise or conversion of the following securities (at conversion prices applicable as at December 31, 2008):

- 17,589,000 shares upon exercise of outstanding stock options and warrants;
- 2,899,000 shares upon exercise of options available for future grant under our existing option plans; and

- 47,203,000 shares or more upon conversion of our outstanding shares of Convertible Preferred Stock and cumulative dividends in arrears.

The exercise or conversion of these securities will result in a significant increase in the number of outstanding shares and substantially dilute the ownership interests of our existing shareholders.

A substantial number of our convertible securities are convertible into shares of common stock at a conversion price of \$.30 per share. Most of these shares are eligible for public resale. The trading price of our common stock and our ability to raise additional financing may be adversely affected by the influx into the market of such a substantial number of shares.

Our outstanding shares of Series A, B and C Convertible Preferred Stock (collectively, the Preferred Stock) and cumulative dividends in arrears are convertible into approximately 47,203,000 shares of common stock as of December 31, 2008, at a per share conversion price of \$.30. Although many of the shares issuable upon conversion of our Preferred Stock are eligible for public resale under Securities Exchange Commission Rule 144, we agreed to file a registration statement to cover the public resale of all of these shares. This significant increase in the number of shares available for public sale may have a negative impact on the trading price of our shares and substantially dilute the ownership interests of our existing shareholders. In the event that our stock trades below \$.30 per share, in order to raise additional financing we would likely be required to issue additional shares of common stock or securities convertible into common stock at a purchase or conversion price, as applicable, of less than \$.30 per share. Any issuance of shares at a purchase price of less than \$.30 per share would reduce the conversion price of our Preferred Stock to such lower price. This would require us to issue additional shares upon conversion of our Preferred Stock and further dilute the ownership interests of our existing shareholders. To the extent these factors are viewed negatively by the market, it may provide an incentive for persons to execute short sales of our common stock that could adversely affect the trading price of our common stock.

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Applicable SEC Rules governing the trading of penny stocks limits the trading and liquidity of our common stock, which may affect the trading price of our common stock.

Our common stock currently trades on the OTC Bulletin Board. Since our common stock continues to trade below \$5.00 per share, our common stock is considered a penny stock and is subject to SEC rules and regulations, which impose limitations upon the manner in which our shares can be publicly traded. These regulations require the delivery, prior to any transaction involving a penny stock, of a disclosure schedule explaining the penny stock market and the associated risks. Under these regulations, certain brokers who recommend such securities to persons other than established customers or certain accredited investors must make a special written suitability determination regarding such a purchaser and receive such purchaser's written agreement to a transaction prior to sale. These regulations have the effect of limiting the trading activity of our common stock and reducing the liquidity of an investment in our common stock.

We do not intend to pay dividends in the foreseeable future.

We have never declared or paid a dividend on our common stock. In addition, the terms of our outstanding Preferred Stock preclude us from declaring or paying a dividend on our common stock unless a dividend is also declared or paid, as applicable, on our Preferred Stock. We intend to retain earnings, if any, for use in the operation and expansion of our business and, therefore, do not anticipate paying any dividends on our common stock in the foreseeable future.

The trading price of our common stock may be volatile.

The trading price of our shares has from time to time fluctuated widely and in the future may be subject to similar fluctuations. The trading price may be affected by a number of factors including the risk factors set forth in this Report as well as our operating results, financial condition, announcements of innovations or new products by us or our competitors, general conditions in the biometrics and access control industries, and other events or factors. Although we believe that approximately 15 registered broker dealers currently make a market in our common stock, we can not assure you that any of these firms will continue to serve as market makers or have the financial capability to stabilize or support our common stock. A reduction in the number of market makers or the financial capability of any of these market makers could also result in a decrease in the trading volume of and price of our shares. In recent years broad stock market indices, in general, and the securities of technology companies, in particular, have experienced substantial price fluctuations. Such broad market fluctuations may adversely affect the future-trading price of our common stock.

ITEM 2. DESCRIPTION OF PROPERTY

We do not own any real estate. We conduct operations from leased premises in Marlborough, Massachusetts (14,907 square feet), Eagan, Minnesota (6,822 square feet), Wall, New Jersey (4,179 square feet) and Fulton County, Georgia, (360 square feet). We believe our current facilities are adequate for the foreseeable future.

ITEM 3. LEGAL PROCEEDINGS

On February 2, 2009, Longview Special Finance, Inc. and Longview Fund, L.P. (the Plaintiffs) filed a complaint against the Company in the United States District Court for the Southern District of New York entitled Longview Special Finance, Inc. and Longview Fund, L.P. v. BIO-key International, Inc., in which the Plaintiffs are seeking \$2,915,950 in damages and an unspecified amount of interest and attorney's fees from the Company as a result of the Company's alleged improper failure to redeem, on or prior to January 10, 2009, the outstanding shares of the Company's Series B Convertible Preferred Stock and Series C Convertible Preferred Stock held by the Plaintiffs. The Company believes that it has meritorious defenses and it intends to defend against these claims vigorously.

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

No matters were submitted to a vote of security holders in the fourth quarter of 2008.

Table of Contents**PART II****ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES**

Our common stock currently trades on the OTC Bulletin Board under the symbol "BKYI". The following table sets forth the range of high and low bid prices per share of our common stock for each of the calendar quarters identified below as reported by the OTC Bulletin Board. These quotations represent inter-dealer prices, without retail mark-up, markdown or commission, and may not represent actual transactions.

2008:		High		Low
Quarter ended December 31, 2008	\$	0.11	\$	0.04
Quarter ended September 30, 2008		0.20		0.09
Quarter ended June 30, 2008		0.18		0.10
Quarter ended March 31, 2008		0.13		0.10

2007:		High		Low
Quarter ended December 31, 2007	\$	0.27	\$	0.10
Quarter ended September 30, 2007		0.20		0.07
Quarter ended June 30, 2007		0.30		0.17
Quarter ended March 31, 2007		0.35		0.20

 Holders

As of February 13, 2009, the number of stockholders of record of our common stock was 172.

 Dividends

We have not paid any cash dividends on our common stock to date, and have no intention of paying any cash dividends on our common stock in the foreseeable future. The terms of our outstanding Convertible Preferred Stock preclude us from declaring or paying a dividend on our common stock unless a dividend is also declared or paid, as applicable, on our Convertible Preferred Stock. The declaration and payment of dividends on our common stock is also subject to the discretion of our Board of Directors and certain limitations imposed under the Delaware General Corporation Law. The timing, amount and form of dividends, if any, will depend on, among other things, our results of operations, financial condition, cash requirements and other factors deemed relevant by our Board of Directors.

 Equity Compensation Plan Information

For information regarding our equity compensation plans, see Item 12 included in this Annual Report on Form 10-K.

Recent Sales of Unregistered Securities

(a) On January 23, 2006, BIO-key International, Inc. entered into an Amendment and Waiver with Laurus pursuant to which Laurus allowed the Company to extend the maturity of the Secured Convertible Term Notes dated September 29, 2004 and June 7, 2005. The fixed conversion price under each of the Secured Notes was reset from \$1.35 to \$0.85 per share. In addition, the exercise price of all warrants to purchase Common Stock of the Company held by Laurus was reset to \$1.00 per share. The Company issued 150,000 shares of the Company's Common Stock to Laurus as consideration for this payment deferral. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

(b) On January 23, 2006, the Company issued Convertible Term Notes in the aggregate principal amount of \$1,000,000 to certain investors. The Convertible Notes are convertible into 1,000,000 shares of Shares of Series B Convertible Preferred Stock of the Company at an initial fixed conversion of \$0.70 per share for an aggregate amount of 1,428,571 shares. In

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in addition the Company issued warrants to these certain investors to purchase 500,000 shares of common stock at an initial exercise price of \$1.00. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

(c) On August 10, 2006, BIO-key International, Inc. entered into an Amendment and Waiver with Laurus pursuant to which Laurus allowed the Company to pay principal amounts due and payable under the 2004 Senior Note and the 2005 Senior Note for the months of August and September 2006 to be paid in shares of the Company's Common Stock priced at \$0.50 per share, and defer principal amounts due and payable under the 2004 Senior Note for the months of October, November and December 2006 to January 1, 2008, the final maturity date of the 2004 Senior Note, and defer the principal amounts due and payable under the 2005 Senior Note for the months of October, November and December 2006 to December 1, 2008, the final maturity date of the 2005 Senior Note. The Company issued 150,000 shares of the Company's Common Stock to Laurus as consideration for this payment amendment and deferral. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

(d) On August 10, 2006, the Company entered into a Securities Exchange Agreement with The Shaar Fund Ltd. and other institutional and accredited investors pursuant to which these investors agreed to exchange the principal amount outstanding under the Subordinated Notes, plus accrued and unpaid interest thereon, and certain liquidated damages payments owed by the Company for 592,032 shares of the Company's Series C Convertible Preferred Stock at an initial fixed conversion of \$0.50 per share. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

(e) On August 10, 2006, the Company issued an aggregate of 3,000,000 and 1,000,000 shares of common stock and warrants to purchase 400,000 and 133,333 shares of common stock at an exercise price of \$0.75, to Trellus Partners, L.P. and The Shaar Fund Ltd., respectively, for aggregate gross proceeds of approximately \$1,500,000 in cash, and \$500,000 in declared and unpaid dividends. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

(f) Effective as of April 18, 2007, the Company entered into an Amendment and Waiver (the April 2007 Senior Notes Amendment and Waiver) with Laurus in connection with the 2004 and 2005 Senior Notes then held by Laurus. Under the April 2007 Secured Notes Amendment and Waiver, the Secured Notes issued by the Company to Laurus on September 29, 2004 and June 7, 2005 were amended as follows: the principal amount due and payable under the 2004 and 2005 Senior Notes for the months of March, April and May 2007 was deferred until the earlier of the closing of a qualified financing transaction, or the final maturity dates of the 2004 and 2005 Senior Notes, which were January 1, 2008 and December 1, 2008, respectively (the Principal Deferral). In addition, the Company agreed to issue 850,000 shares of restricted common stock to Laurus as consideration for: (i) the foregoing Principal Deferral; (ii) the full satisfaction of all of the Company's default obligations to Laurus, which amounted to \$622,764, that were incurred by the Company as a result of any Event of Default by the Company under the 2004 and 2005 Senior and Subordinated Note agreements; and (iii) the waiver of all prepayment fees and penalties arising from the Company prepaying the obligations under the Notes under certain circumstances. These securities were issued in a private placement transaction exempt from the registration requirements of the Securities Act pursuant to Section 4(2) thereof directly by the Company without engaging in any advertising or general solicitation of any kind and without payment of underwriting discounts or commissions to any person.

Purchases of Equity Securities by the Issuer and Affiliated Purchasers

None.

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ITEM 6. SELECTED FINANCIAL DATA

N/A

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This Management's Discussion And Analysis Of Financial Condition And Results Of Operations, and other parts of this Report contain forward-looking statements that involve risks and uncertainties. All forward-looking statements included in this Report are based on information available to us on the date hereof, and we assume no obligation to update any such forward-looking statements. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of a number of factors, including those set forth in the section captioned **RISK FACTORS** in Item 1A and elsewhere in this Report. The following should be read in conjunction with our audited financial statements included elsewhere herein.

The following Management's Discussion And Analysis Of Financial Condition And Results Of Operations (MD&A) is intended to help you understand BIO-key International (the Company , we , us or our). MD&A is provided as a supplement to and should be read in conjunction with our financial statements and the accompanying notes. Our MD&A includes the following sections:

OVERVIEW provides a description of our business, the major items that affected our business, and how we analyze our business. It then provides an analysis of our overall 2008 performance and a description of the significant events impacting 2008 and thereafter.

RESULTS OF OPERATIONS provides an analysis of the consolidated and segment results of operations for 2008 compared to 2007.

LIQUIDITY AND CAPITAL RESOURCES provides an overview of our cash flows, financing, contractual obligations, and liquidity outlook.

CRITICAL ACCOUNTING POLICIES provides a discussion of our accounting policies that require critical judgment, assumptions and estimates.

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RECENT ACCOUNTING STANDARDS by reference to Note 1 to the Consolidated Financial Statements provides a description of accounting standards which we have not yet been required to implement and may be applicable to our operations, as well as those significant accounting standards which were adopted during 2008.

OVERVIEW

Our Business

BIO-key develops and delivers advanced identification solutions and information services to customers in both the private sector and government, including law enforcement departments, and public safety agencies. Our high-performance, yet easy-to-deploy biometric finger identification technology accurately identifies and authenticates users of wireless and enterprise data, improving security, convenience and privacy while reducing identity theft. Our mobile wireless technology provides first responders with critical, reliable, real-time data and images from local, state and national databases. Today, over 750 police departments in North America depend on BIO-key solutions, making us one of the leading supplier of mobile and wireless solutions for public safety worldwide

In 2004, BIO-key acquired Public Safety Group, Inc. (PSG), a privately held company that is a leader in wireless solutions for law enforcement and public safety markets. PSG's primary technology is PocketCop, a handheld solution that provides mobile officers, such as detectives who are not typically in their vehicles, a hand-held mobile information software solution.

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Also in 2004, BIO-key completed a transaction with Aether Systems, Inc. to purchase its Mobile Government Division (Mobile Government or AMG), a leading provider of wireless data solutions for use by public safety organizations, primarily state, local police, fire and rescue and emergency medical services organizations. Our PacketCluster mobile information software is integrated with 50 separate State/NCIC databases, as well as other state, local and federal databases. Its open architecture and its published Application Programming Interface (API) make it easy to interface with a wide range of information sources. PacketCluster products deliver real-time information in seconds, freeing dispatchers to handle more pressing emergencies.

In 2007, BIO-key completed a transaction with ZOLL Data Systems, Inc. (ZOLL), a subsidiary of ZOLL Medical Corporation, in which ZOLL acquired substantially all of the assets related to the Company's Fire/EMS Services division.

INTRODUCTION

Over the past few years, the Company has integrated the products, operations and technology acquired from PSG and AMG, and restructured its operations into three business segments: Biometrics, Law Enforcement and Fire Safety, the last of which was sold in May 2007 to ZOLL. Our Biometrics and Law Enforcement segments are headed by a General Manager and are organized to quickly respond to market needs as well as to drive down costs to achieve profitability.

A detailed analysis of both segments can be found below.

RESULTS OF OPERATIONS

Consolidated Results of Operations

Two Year % trend

	Years ended December 31,	
	2008	2007
Revenues		
Services	56%	70%
License fees and other	44%	30%
	100%	100%
Costs and other expenses		
Cost of services	10%	15%
Cost of license fees and other	3%	3%
	13%	18%
Gross Profit	87%	82%

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Operating expenses		
Selling, general and administrative	51%	86%
Research, development and engineering	35%	50%
	86%	136%
Operating income/(loss)	1%	-54%
Other income/(deductions)		
Total other income/(deductions)	1%	-2%
Net Income/(loss) from continuing operations	2%	-56%
Net Income from discontinued operations	0%	4%
Gain/(loss) on disposal of discontinued operations	-1%	41%
Net income/(loss)	1%	-11%

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The Company evaluates performance and allocates resources based on revenues and operating income (loss). Operating income (loss) for each segment includes selling, general and administrative expenses directly attributable to the segment in addition to those allocated as a percentage based on the segments' revenues and other factors. The segmentation of operating income as noted above and detailed below reflects how management evaluates its business. Assets for the Company are commingled and are related to all operating segments. Management does not evaluate or identify the operating assets of the segments separately.

Revenues and Costs of goods sold

	2008	2007	2008 - 2007	
			\$ Chg	% Chg
Revenues				
Law Enforcement				
Service	\$ 7,045,222	\$ 6,904,856	\$ 140,366	2%
License & other	2,451,283	2,168,344	282,939	13%
	9,496,505	9,073,200	423,305	5%
Biometrics				
Service	191,515	60,850	130,665	215%
License & other	3,188,027	854,406	2,333,621	273%
	3,379,542	915,256	2,464,286	269%
Total Revenue	\$ 12,876,047	\$ 9,988,456	\$ 2,887,591	29%
Cost of goods sold				
Law Enforcement				
Service	\$ 1,195,602	\$ 1,397,888	\$ (202,286)	(14)%
License & other	200,287	145,627	54,660	38%
	1,395,889	1,543,515	(147,626)	(10)%
Biometrics				
Service	70,646	95,453	(24,807)	(26)%
License & other	268,606	145,808	122,798	84%
	339,252	241,261	97,991	41%
Total COGS	\$ 1,735,141	\$ 1,784,776	\$ (49,635)	(3)%

Revenues**Law Enforcement**

For the year ended December 31, 2008, service revenue increased due to a combination of new license and associated maintenance deals, and the conversion of a long-term project customer into maintenance. This increase was offset by existing customer cancellations.

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For the year ended December 31, 2008, license and other revenue increased primarily due to product penetration into a number of new government agencies in Georgia, Hawaii, and Maryland.

Biometrics

For the year ended December 31, 2008, service revenue increased as the Company successfully bundled maintenance agreements to its expanding customer license base during the period, as well renewed existing maintenance agreements from its legacy customers during the period. The percentage of service revenue as a proportion of total Biometric revenue was steady at approximately 6% across the two periods reported.

For the year ended December 31, 2008, license and other revenue increased primarily as a result of sales generated from a new OEM customer, and was supplemented by additional license revenue from existing customers.

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For the year ended December 31, 2008, cost of services decreased from the 2007 period primarily due to a reduction in payroll costs of approximately \$140,000, and the associated allocation of corporate overhead, of approximately \$48,000.

For the year ended December 31, 2008, cost of licenses increased from the 2007 period as a result of the Company's increased use of embedded third-party software, which had the effect of driving up license fees and royalty costs.

Biometrics

For the year ended December 31, 2008, cost of services decreased from the 2007 period due to lower personnel related expenses. The Company expects these costs will increase in future periods as additional Biometric customers are added.

For the year ended December 31, 2008, cost of license and other increased from the 2007 period, due to an increase in hardware and third party software costs, driven by a larger customer base. While these costs increased year over year, the proportion of license and other costs to license and other revenues decreased to 8% from 17% over the two periods presented, indicating that the Company improved its margins in this emerging segment.

Selling, general and administrative

	2008	2007	2008 - 2007	
			\$ Chg	% Chg
Law Enforcement	\$ 5,184,094	\$ 7,142,929	\$ (1,958,835)	(27)%
Biometrics	1,369,828	1,430,934	(61,106)	(4)%
Total	\$ 6,553,922	\$ 8,573,863	\$ (2,019,941)	(24)%

The overall decline in the total SG&A costs for the year ended December 31, 2008 as compared to 2007 was primarily attributable to a reduction in headcount driven by our continued focus on expense management. Payroll costs, which include permanent and temporary staff as well as the associated benefits, and commissions, were reduced by approximately \$730,000, and the associated share-based compensation charges decreased by approximately \$180,000 during 2008.

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Professional fees dropped by approximately \$860,000 throughout the 2008 year due to a number of factors. First, the Company was able to further reduce certain accounting and consulting fees incurred during 2007 relating to reporting and compliance issues the Company experienced due to the restatement of previously filed financial statements that occurred in 2007. In addition, there were \$426,000 in one-time legal and regulatory costs associated with our proposed acquisition of a Canadian company incurred in 2007.

During 2008, the Company extended its property lease at the Marlborough, MA location. The lower square footage of floor space rented will save the Company approximately \$75,000 per month, when compared to the previous arrangement. Hence the allocation of facilities cost across the Law segment was lower.

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	2008	2007	2008 - 2007	
			\$ Chg	% Chg
Law Enforcement	\$ 3,502,451	\$ 3,997,678	\$ (495,227)	(12)%
Biometrics	986,341	997,121	(10,780)	(1)%
Total	\$ 4,488,792	\$ 4,994,799	\$ (506,007)	(10)%

Law Enforcement

For the year ended December 31, 2008, R & D costs decreased as compared to 2007 due to two main factors. Personnel related expenses, including the associated share-based compensation charges decreased by approximately \$350,000 due to headcount reductions. Another driver of change in facilities charges was due to the Company extending its property lease at the Marlborough, MA location, as discussed above.

Biometrics

For the year ended December 31, 2008, R & D costs decreased as compared to 2007, primarily due to lower personnel costs, offset slightly by an increase in consultant expenses.

Other income and expense

	2008	2007	2008 - 2007	
			\$ Chg	% Chg
Interest income	\$ 1,339	\$ 3,097	\$ (1,758)	(57)%
Interest expense	(92,520)	(832,457)	739,937	(89)%
Derivative and warrant fair value adjustments	93,059	1,016,845	(923,786)	(91)%
Investment income	119,348		119,348	n/a
Loss on extinguishment of debt		(403,940)	403,940	(100)%
Other income (expense)	(34,885)	12,102	(46,987)	(388)%
	\$ 86,341	\$ (204,353)	\$ 290,694	(142)%

For the year ended December 31, 2008, the decrease in interest expense was attributable to repayment of all of the Company's senior and subordinated debt obligations in May 2007. Interest expense includes actual cash paid for interest as well as non-cash interest charges for the amortization of debt discounts, deferred charges, and deferred rent. The majority of interest expense for 2008 was associated with the Note Payable (Note L).

For the year ended December 31, 2008, derivative and warrant fair value adjustments decreased, when compared to the 2007 period, due to changes in the fair market value of embedded derivatives and detachable warrants issued with convertible debt in 2004 and 2005, as well as additional derivatives recorded as a result of financings in 2006. The fair value of the derivatives will fluctuate based on; our stock price on the valuation date, the debt conversion price, the volatility of our stock price over a period of time, changes in the value of the risk free interest rate, and the time to maturity of the outstanding debt at different points in time. Stock price is the major driver behind the movement in the Company's balances. In dollar terms, our stock price decreased less during the 2008 year when compared to the 2007 year, reducing the extent of the movement in value of the derivatives and warrants, and creating less substantial non-cash income.

As mentioned in Note Q to the consolidated financial statements, the balance of unamortized debt discounts, deferred financing charges, and derivatives with respect to the 2004 and 2005 financings were extinguished as part of the May 2007 debt repayment. The changes represented non-cash income and expense charges to the statement of operations and were

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classified as loss on extinguishment of debt. There was no extinguishment of debt during 2008.

For the year ended December 31, 2008, investment income related to the realization of available-for-sale securities sold at its market value.

DISCONTINUED OPERATIONS

On May 22, 2007, we completed the sale of our Fire/EMS Services division for \$7 million, amounting to a net gain to the Company of approximately \$4 million. This business had previously been reported as a separate segment in our financial statements. For the fiscal years ended 2008 and 2007, \$0, and \$0.4 million of operating income, respectively, net of tax, were reflected as discontinued operations in the accompanying consolidated statements of operations. Net sales associated with the discontinued operations were \$0, and \$1.5 million for 2008 and 2007, respectively. See Note B Discontinued Operations for further discussion.

LIQUIDITY AND CAPITAL RESOURCES

OPERATING ACTIVITIES OVERVIEW

Net cash provided by operations during the year ended December 31, 2008 was approximately \$129,000. The cash provided by operating activities of continuing operations was primarily due to the following items:

- Positive cash flows related to a decrease in accounts receivable, offset by a decrease in deferred revenue of approximately \$1,440,000, and \$810,000, respectively (net inflow of \$630,000),

- Negative cash flows from payments with respect to the note payable, and a decrease in accrued liabilities of approximately \$840,000 and \$592,000, respectively (total outflow of \$1,432,000),

- Negative cash flows from a reduction in deferred rent by approximately \$350,000.

The following non-cash items reflected in the Company's statement of operations are used to reconcile the net loss to the net cash used in operating activities during the year ended December 31, 2008:

- The Company issued notes in 2004, 2005 and 2006 and preferred stock in 2006, all of which contained embedded derivatives, and associated warrants. In 2008, the Company recognized gains of approximately \$93,000 related to the decrease in value of the derivatives and associated warrants. The decrease in value is driven mainly by the decline in value of the underlying BIO-key stock,
- The Company recorded approximately \$119,000 as gain on sale of investments in 2008,
- The Company recorded approximately \$742,000 of charges in 2008 for the expense of amortizing intangible assets,
- The Company recorded approximately \$415,000 of charges in 2008 for the expense of issuing options to employees for services.

INVESTING ACTIVITIES OVERVIEW

Net cash provided by investing activities for the year ended December 31, 2008 was approximately \$619,000. The cash provided by investing activities for continuing operations was primarily driven by deposit returns of approximately \$480,000,

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and the proceeds of approximately \$119,000 from the sale of available-for-sale investments.

FINANCING ACTIVITIES OVERVIEW

The were no cash inflows or outflows related to financing activities during 2008.

Working capital deficit at December 31, 2008 was approximately \$4,100,000 as compared to a deficit of approximately \$5,796,000 at December 31, 2007, the improvement of which was driven mainly by the Company's repayment of various liabilities and recognition of backlog items from deferred revenue.

Since January 7, 1993 (date of inception), our capital needs have been principally met through proceeds from the sale of equity and debt securities.

We do not expect any material capital expenditures during the next twelve months.

We do not currently maintain a line of credit or term loan with any commercial bank or other financial institution.

Liquidity outlook

At December 31, 2008, our total of cash and cash equivalents was approximately \$1,713,000, as compared to approximately \$965,000 at December 31, 2007.

As discussed above, the Company has financed itself in the past through access to the capital markets by issuing convertible debt securities, convertible preferred stock and common stock. We currently require approximately \$900,000 per month to conduct our operations. During 2008, we generated approximately \$13,000,000 of revenue. While the Company expects to increase revenue in 2009, there can be no assurance that we will achieve that goal.

The Company remains obligated under a note payable to one of its subcontractors in the aggregate amount of approximately \$1,100,000, which amount is scheduled to be paid by the Company on a monthly basis, with the final payment due on June 1, 2009.

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In addition, as described further in Notes O and X to the financial statements included in this annual report, the Company is currently required to redeem certain of its outstanding shares of preferred stock, to the extent that the Company is legally permitted to do so, by paying cash to the holders of such shares in accordance with the terms of such preferred stock.

If we are unable to generate sufficient revenue to meet our goals, we will need to obtain additional third-party financing to (i) conduct the sales, marketing and technical support necessary to execute our plan to substantially grow operations, increase revenue and serve a significant customer base; and (ii) provide working capital. Therefore, we may need to obtain additional financing through the issuance of debt or equity securities, or to restructure our financial position through similar transactions to those consummated during 2006 and 2007.

Due to several factors, including our history of losses and limited revenue, our independent auditors have included an explanatory paragraph in opinions they have previously issued related to our annual financial statements as to the substantial doubt about our ability to continue as a going concern. Our long-term viability and growth will depend upon the successful commercialization of our technologies and our ability to obtain adequate financing. To the extent that we require such additional financing, no assurance can be given that any form of additional financing will be available on terms acceptable to us, that adequate financing will be obtained to meet our needs, or that such financing would not be dilutive to existing stockholders. If available financing is insufficient or unavailable or we fail to continue to generate meaningful revenue, we may be required to further reduce operating expenses, delay the expansion of operations, be unable to pursue merger or acquisition candidates, or continue as a going concern.

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OFF-BALANCE SHEET ARRANGEMENTS

We do not have any off-balance sheet arrangements that have, or are in the opinion of management reasonably likely to have, a current or future effect on our financial condition or results of operations. The office lease agreement signed by the Company in June 2008 states BIO-key was to maintain a security deposit in the form of an irrevocable letter of credit in the amount of \$40,500. However, BIO-key and the landlord for the property subsequently agreed to have BIO-key place the funds in a third-party escrow account, to be returned at the conclusion of the lease term. The escrow is recorded as the non-current asset, restricted cash as at December 31, 2008.

CRITICAL ACCOUNTING POLICIES

Our financial statements are prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires that we 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 revenue and expenses during the reporting periods. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances. We evaluate our estimates and assumptions on an ongoing basis. Our actual results may differ significantly from these estimates under different assumptions or conditions. There have been no material changes to these estimates for the periods presented in this Annual Report on Form 10-K.

We believe that of our significant accounting policies, which are described in Note A of the notes to our consolidated financial statements included in this Annual Report on Form 10-K, the following accounting policies involve a greater degree of judgment and complexity. Accordingly, these are the policies we believe are the most critical to aid in fully understanding and evaluating our financial condition and results of operations.

1. Revenue Recognition

Revenues from software licensing are recognized in accordance with Statement of Position (SOP) No. 97-2, Software Revenue Recognition, as amended by SOP No. 98-9. Accordingly, revenue from software licensing is recognized when all of the following criteria are met: persuasive evidence of an arrangement exists, delivery has occurred, the fee is fixed or determinable, and collectability is probable.

The Company intends to enter into arrangements with end users for items which may include software license fees, and services or various combinations thereof. For each arrangement, revenues will be recognized when evidence of an agreement has been documented, the fees are fixed or determinable, collection of fees is probable, delivery of the product has occurred and no other significant obligations remain.

Multiple-Element Arrangements: For multiple-element arrangements, each element of the arrangement will be analyzed and the Company will allocate a portion of the total fee under the arrangement to the elements using vendor specific objective evidence of fair value of the element, regardless of any separate prices stated within the contract for each element. Vendor specific objective evidence is based on the price the customer is required to pay when the element is sold separately (i.e., software license fees charged when consulting or other services are not

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provided, hourly rates charged for consulting services when sold separately from a software license). If vendor specific objective evidence of fair value does not exist for any undelivered elements, all revenue is deferred and recognized ratably over the service period if the undelivered element is services, or until sufficient objective evidence of fair value exists or all elements have been delivered.

License Revenues: Amounts allocated to license revenues are recognized at the time of delivery of the software and all other revenue recognition criteria discussed above have been met.

Revenue from licensing software, which requires significant customization and modification, is recognized using the percentage of completion method, based on the hours of effort incurred by the company in relation to the total estimated hours to complete. In instances where third party hardware, software or services form a significant portion of a customer's contract, the company recognizes revenue for the element of software customization by the percentage of completion method described above. Third party hardware, software, and services are recognized upon shipment or acceptance as appropriate. If

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the company makes different judgments or utilizes different estimates of the total amount of work expected to be required to customize or modify the software, the timing and revenue recognition, from period to period, and the margins on the project in the reporting period, may differ materially from amounts reported. Revenues earned but not yet billed are shown as an asset in Costs and Earnings in Excess of Billings in the balance sheet. Billings in excess of cost and earnings are reflected as a liability in the balance sheet. Anticipated contract losses are recognized as soon as they become known and are estimable.

Service Revenues: Revenues from services are comprised of maintenance and consulting and implementation services. Maintenance revenues include providing for unspecified when-and-if available product updates and customer telephone support services, and are recognized ratably over the term of the service period. Consulting services are generally sold on a time-and-materials basis and include a range of services including installation of software and assisting in the design of interfaces to allow the software to operate in customized environments. Services are generally separable from other elements under the arrangement since performance of the services are not essential to the functionality of any other element of the transaction and are described in the contract such that the total price of the arrangement would be expected to vary as the result of the inclusion or exclusion of the services. Revenues from services are generally recognized as the services are performed.

The Company provides customers, free of charge or at a minimal cost, testing kits which potential licensing customers may use to test compatibility/acceptance of the Company's technology with the customer's intended applications.

Costs and other expenses: Includes professional compensation and other direct contract expenses, as well as costs attributable to the support of client service professional staff, depreciation and amortization costs related to assets used in revenue-generating activities, and other costs attributable to serving the Company's client base. Professional compensation consists of payroll costs and related benefits including stock-based compensation and bonuses. Other direct contract expenses include costs directly attributable to client engagements, such as out-of-pocket costs including travel and subsistence for client service professional staff, costs of hardware and software and costs of subcontractors. The allocation of lease and facilities charges for occupied offices are included in costs of service.

2. Derivative and Warrant financial instruments

In connection with the sale of debt or equity instruments, we may sell options or warrants to purchase our common stock. In certain circumstances, these options or warrants may be classified as derivative liabilities, rather than as equity. Additionally, the debt or equity instruments may contain embedded derivative instruments, such as conversion options, which in certain circumstances may be required to be bifurcated from the associated host instrument and accounted for separately as a derivative instrument asset or liability.

The identification of, and accounting for, derivative instruments is complex. Our derivative instrument liability is re-valued at the end of each reporting period, with changes in the fair value of the derivative liability recorded as charges or credits to income, in the period in which the changes occur. For options, warrants and bifurcated conversion options that are accounted for as derivative instrument liabilities, we determine the fair value of these instruments using the Black-Scholes or Binomial option pricing model. That model requires assumptions related to the remaining term of the instruments and risk-free rates of return, our current common stock price and expected dividend yield, and the expected volatility of our common stock price over the life of the option. The identification of, and accounting for, derivative instruments and the assumptions used to value them can significantly affect our financial statements.

3. *Goodwill and Intangible Assets*

Goodwill represents the excess of costs of an acquired entity over the net of the amounts assigned to assets acquired and liabilities assumed. The Company has adopted Statement of Financial Accounting Standards No. 142 (SFAS 142), Goodwill and Other Intangible Assets., which requires the Company to test goodwill for impairment annually or whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, rather than amortize. Accordingly, the Company has not amortized goodwill.

Due to the disposal of the Fire/EMS business in May 2007, the Company allocated a greater proportion of Corporate overhead to its Law and Biometrics segments, which affected the fair value assessment of these two remaining reporting units. In addition, the Company also repaid the balance of all convertible debt during the quarter, which increased the net assets of the Company. Accordingly, the Company assessed these events significant enough to trigger the need for an interim

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assessment as to the recoverability of goodwill. Based on the Company's assessment, as of June 30, 2007, the Company believed no impairment to goodwill existed.

As provided by SFAS No. 142, the Company has elected to perform the annual assessment of the carrying value of all goodwill as of September 30th of each year using a number of criteria, including the value of the overall enterprise. As of December 31, 2008 and 2007, the Company believes that no impairment exists. Future impairment charges from previous or future acquisitions, if any, will be reflected as an operating expense in the statement of operations.

4. Research and Development Expenditures

Research and development expenses include costs directly attributable to the conduct of research and development programs primarily related to the development of our software products and improving the efficiency and capabilities of our existing software. Such costs include salaries, payroll taxes, employee benefit costs, materials, supplies, depreciation on research equipment, services provided by outside contractors, and the allocable portions of facility costs, such as rent, utilities, insurance, repairs and maintenance, depreciation and general support services. All costs associated with research and development are expensed as incurred.

5. Income Taxes

The provision for, or benefit from, income taxes includes deferred taxes resulting from the temporary differences in income for financial and tax purposes using the liability method. Such temporary differences result primarily from the differences in the carrying value of assets and liabilities. Future realization of deferred income tax assets requires sufficient taxable income within the carryback, carryforward period available under tax law. The Company evaluates, on a quarterly basis whether, based on all available evidence, if it is probable that the deferred income tax assets are realizable. Valuation allowances are established when it is more likely than not that the tax benefit of the deferred tax asset will not be realized. The evaluation, as prescribed by Statement of Financial Accounting Standards No. 109, Accounting for Income Taxes, includes the consideration of all available evidence, both positive and negative, regarding historical operating results including recent years with reported losses, the estimated timing of future reversals of existing taxable temporary differences, estimated future taxable income exclusive of reversing temporary differences and carryforwards, and potential tax planning strategies which may be employed to prevent an operating loss or tax credit carryforward from expiring unused. Because of the Company's historical performance and estimated future taxable income a full valuation allowance has been established.

6. Accounting for Stock-Based Compensation

The Company accounts for share based compensation in accordance with the provisions of SFAS 123R, which requires measurement of compensation cost for all stock awards at fair value on date of grant and recognition of compensation over the service period for awards expected to vest. The majority of our share-based compensation arrangements vest over either a three or four year vesting schedule. The Company expenses its share-based compensation under the ratable method, which treats each vesting tranche as if it were an individual grant. The fair value of stock options is determined using the Black-Scholes valuation model, and requires the input of highly subjective assumptions. These assumptions include estimating the length of time employees will retain their vested stock options before exercising them (the expected

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option term), the estimated volatility of our common stock price over the option s expected term, the risk-free interest rate over the option s expected term, and the Company s expected annual dividend yield. Changes in these subjective assumptions can materially affect the estimate of fair value of stock-based compensation and consequently, the related amount recognized as an expense in the consolidated statements of operations. As required under the accounting rules, we review our valuation assumptions at each grant date and, as a result, are likely to change our valuation assumptions used to value employee stock-based awards granted in future periods. The values derived from using the Black-Scholes model are recognized as expense over the service period, net of estimated forfeitures (the number of individuals that will ultimately not complete their vesting requirements). The estimation of stock awards that will ultimately vest requires significant judgment. We consider many factors when estimating expected forfeitures, including types of awards, employee class, and historical experience. Actual results, and future changes in estimates, may differ substantially from our current estimates.

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RECENT ACCOUNTING STANDARDS

In September 2006, the FASB issued SFAS No. 157, *Fair Value Measurements* (SFAS 157), which is effective for calendar year companies on January 1, 2008. This Statement defines fair value, establishes a framework for measuring fair value and expands the related disclosure requirements. Management has adopted SFAS 157. The adoption of SFAS 157 had no impact on the Company's financial condition and results of operations in 2008.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities* (SFAS 159), which is effective for calendar year companies on January 1, 2008. The statement allows an entity the irrevocable option to elect fair value for the initial and subsequent measurement for certain financial assets and liabilities on a contract-by-contract basis. Subsequent changes in fair value of these financial assets and liabilities would be recognized in earnings when they occur. SFAS 159 further establishes certain additional disclosure requirements. The adoption of SFAS 159 had no impact on the Company's financial condition and results of operations in 2008.

In December 2007, the SEC issued SAB No. 110. SAB 110 allows for the continued use of a simplified method, as discussed in SAB No. 107, in developing an estimate of expected term of plain vanilla share options in accordance with SFAS 123 (revised 2004). Originally the SEC staff stated in SAB 107 that it would not expect a company to use the simplified method for share option grants after December 31, 2007. Accordingly, the SEC staff will continue to accept, under certain circumstances, the use of the simplified method beyond December 31, 2007. The Company will continue to use of the simplified method for determining the value of options granted as allowed by SAB 110.

In December 2007, the FASB issued SFAS No. 141(R), *Business Combinations* (SFAS No. 141(R)) which establishes principles and requirements for how the acquirer of a business recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any noncontrolling interest in the acquiree. SFAS No. 141(R) also provides guidance for recognizing and measuring the goodwill acquired in the business combination and determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. The provisions of SFAS No. 141(R) are applicable to business combinations consummated on or after December 15, 2008 with early adoption prohibited. The adoption of SFAS 141(R) will have an impact on the Company's accounting for business combinations in connection with any future acquisitions.

In December 2007, the FASB issued SFAS No. 160, *Noncontrolling Interests in Consolidated Financial Statements - an amendment of ARB No. 51* (SFAS No. 160) which establishes accounting and reporting standards for the noncontrolling interest in a subsidiary for the deconsolidation of a subsidiary. SFAS No. 160 is effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim statements within those fiscal years. The Company does not currently have any noncontrolling interests.

In March 2008, the FASB issued SFAS No. 161, *Disclosures about Derivative Instruments and Hedging Activities*. (SFAS No.161) which amends and expands the disclosure requirements related to derivative instruments and hedging activities. The Statement requires qualitative disclosures about objectives and strategies for using derivatives, quantitative disclosures about fair value amounts of and gains and losses on derivative instruments, and disclosures about credit-risk-related contingent features in derivative agreements. The provisions of SFAS 161 are effective for the fiscal year beginning January 1, 2009. The company will comply with the disclosure requirements of this statement if it utilizes derivative instruments or engages in hedging activities upon its effectiveness.

In October 2008, the FASB issued Staff Position No. FAS 157-3, *Determining the Fair Value of a Financial Asset When the Market for That Asset is Not Active* (FSP 157-3). FSP 157-3 clarifies the application of SFAS 157, which the Company adopted as of January 1, 2008, in cases where a market is not active. The adoption of FSP 157-3 had no impact on the Company's financial condition and results of operations in 2008.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

N/A

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ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

See financial statements appearing at pages 46-76 of this report

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

An evaluation of the effectiveness of the Company's disclosure controls and procedures (as such term is defined in Rules 13(a)-15(e) of the Securities Exchange Act of 1934, as amended (the Exchange Act)), as of December 31, 2008 was carried out by the Company under the supervision and with the participation of the Company's Chief Executive Officer (CEO) and Chief Financial Officer (CFO).

During the review of the Company's operating results for the period covered by this report, our CEO and CFO determined that, as of December 31, 2008, our disclosure controls and procedures were effective in providing reasonable assurance that information we are required to disclose in reports we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified by the Securities and Exchange Commission rules and forms. Our management reached this conclusion after identifying our system to capture disclosure items, our internal process of review for account reconciliations, our documentation of internal controls and our internal process for preparing our annual report on Form 10-K for the fiscal year ended December 31, 2008 as being adequate to provide such assurance.

Management's Annual Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives because of its inherent limitations. Internal control over financial reporting is a process that involves human diligence and compliance and is subject to lapses in judgment and breakdowns resulting from human failures. Internal control over financial reporting also can be circumvented by collusion or improper management override. Because of such limitations, there is a risk that material misstatements may not be prevented or detected on a timely basis by internal control over financial reporting. However, these inherent limitations are known features of the financial reporting process. Therefore, it is possible to design into the process safeguards to reduce, though not eliminate, the risk. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in

conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including our CEO and CFO, we have conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2008, based upon the framework in *Internal Control-Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, management has concluded that our internal control over financial reporting was effective as of December 31, 2008.

This annual report does not include an attestation report of the Company's registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by the Company's registered public accounting firm pursuant to temporary rules of the Securities and Exchange Commission that permit the company to

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provide only management's report in this annual report.

Changes in Internal Control Over Financial Reporting

During the fiscal quarter ended December 31, 2008, the Company's Chief Financial Officer, Frank Cusick, left the business, and was replaced by the Company's Chairman of the Board, Thomas Colatosti, in an acting capacity.

During the fiscal quarter ended December 31, 2008, the Company supplemented its review and reporting structure through the use of outside experts to assist in the determination of applicable accounting treatments for certain complex business transactions, in order to provide adequate disclosure in the Company's financial statements. The outside experts have also assisted with the review and testing of the Company's internal control over financial reporting as of December 31, 2008.

ITEM 9B. OTHER INFORMATION

None.

Table of Contents**PART III****ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**

The following sets forth certain information about each director and executive officer of the Company.

NAME	AGE	POSITIONS HELD
Thomas J. Colatosti	60	Chairman of the Board of Directors and Chief Financial Officer
Michael W. DePasquale	54	Chief Executive Officer and Director
Jeffrey J. May (b)	49	Director
Charles P. Romeo(a) (c)	67	Director
John Schoenherr (b) (c)	56	Director
Randy Fodero	50	Vice President of Sales
Kenneth S. Souza	54	General Manager, Law Enforcement and Chief Technology Officer

(a) From April 2004 to February 2005, Mr. Romeo was employed by the Company.

(b) Audit Committee Member

(c) Compensation Committee Member

The following is a brief summary of the business experience of each of the above-named individuals:

THOMAS J. COLATOSTI has served as a Director of the Company since September 2002, as Chairman of the Board since January 3, 2003, and as Chief Financial Officer since November 17, 2008. He served as Co-Chief Executive Officer of the Company from July 2005 to August 2006. Mr. Colatosti also currently serves as the Chief Executive Officer of American Security Ventures, a Lexington, Massachusetts-based consulting firm he founded which specializes in providing strategic management consulting services to emerging and developing companies in the homeland security industry. Since August 18, 2005, Mr. Colatosti has served as a Director and President of Good Harbor Partners Acquisition Corp., a publicly-traded special purpose acquisition company formed to acquire businesses in the security sectors. From 1997 through June 2002, Mr. Colatosti served as the Chief Executive Officer of Viisage Technology, Inc., a publicly traded biometric technology company. Between 1995 and 1997, Mr. Colatosti served as President and Chief Executive Officer of CIS Corporation. Prior to CIS, Mr. Colatosti had a 21 year career with Digital Equipment Corporation. Among his executive positions he was Vice President and General Manager of

the company's \$1.2 billion Government Systems Division. Mr. Colatosti is considered a security industry authority.

MICHAEL W. DEPASQUALE has served as the Chief Executive Officer and a Director of the Company since January 3, 2003. He served as Co-Chief Executive Officer of the Company from July 2005 to August 2006. Mr. DePasquale brings more than 25 years of executive management, sales and marketing experience to the Company. Prior to joining BIO-key, Mr. DePasquale served as the President and Chief Executive Officer of Prism eSolutions, Inc., a Pennsylvania-based provider of professional consulting services and online solutions for ISO-9001/14000 certification for customers in manufacturing, healthcare and government markets, since February 2001. From December 1999 through December 2000, Mr. DePasquale served as Group Vice President for WRC Media, a New York-based distributor of supplemental education products and software. From January 1996 until December 1999, Mr. DePasquale served as Senior Vice President of Jostens Learning Corp., a California-based provider of multi media curriculum. Prior to Jostes, Mr. DePasquale held sales and marketing management positions with McGraw-Hill and Digital Equipment Corporation. Mr. DePasquale earned a Bachelor of Science degree from the New Jersey Institute of Technology.

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JEFFREY J. MAY has served as a Director of the Company since October 29, 2001. Since December 2006, Mr. May has served as the CEO and Director of MagnaLynx, a semiconductor company specializing in high speed chip level communications. Since 1997, Mr. May has served as the President of Gideons Point Capital, a Minnesota-based investment and consulting firm focusing on assisting start-up technology companies. In 1983, Mr. May co-founded Advantek, Inc., a manufacturer of equipment and materials for the semiconductor industry, which was sold in 1993. Mr. May continued to serve as a director and Vice-President of Operations of Advantek until 1997, when it had over 600 employees and sales in excess of \$100 million. Mr. May earned a Bachelor of Science degree in Electrical Engineering from the University of Minnesota in 1983.

CHARLES P. ROMEO has served as a director of the Company since February 28, 2005 and from January 29, 2003 to April 19, 2004. From April 2004 until February 2005, he served as Vice President of Sales, Public Safety Division of the Company. From November 2005 to November 2007, Mr. Romeo served as the Vice President of Sales and Marketing for UNICOM, a Rhode Island systems integrator. From September 2002 until April 2004 Mr. Romeo has served as the President and Chief Executive Officer of FreedomBridge Technologies, Inc., a Rhode Island-based consulting firm to technology companies in the homeland security industry specializing in implementing direct and channel selling programs, strategic alliances and partnerships in the law enforcement market. Prior to founding FreedomBridge, Mr. Romeo had a 33 year sales and marketing management career with Digital Equipment Corporation, Compaq Computer Corporation and Hewlett Packard. During his career, Mr. Romeo served as Vice President of Service Sales for a \$500 million business unit, and Director of Public Sector Sales, a \$275 million division of Hewlett Packard. Mr. Romeo authored *The Sales Manager's Troubleshooter*, Prentice Hall 1998, which was named as one of the top 10 must reads by Sales and Marketing Magazine. Mr. Romeo earned a Bachelor of Science degree in Mathematics and Economics from the University of Massachusetts and an Executive MBA from Babson College.

JOHN SCHOENHERR has served as a Director of the Company since December 30, 2004. Mr. Schoenherr served as Vice President of Corporate Performance Management for Oracle Corporation from 1995 through 2006. Prior to Oracle he served as Senior Vice President of Business Intelligence and Analytics at Information Resources, Inc. Mr. Schoenherr has over 25 years of experience in the area of business intelligence and strategic planning. His career includes a number of product development and management positions.

RANDY FODERO has served as the Vice President of Sales since February 1, 2006. From July 2005 until February 2006, he was a sales consultant to the Company. Between July 2003 and July 2005, Mr. Fodero was the Vice President of Sales and Marketing, and from March 2003 to July 2003 Mr. Fodero was a member of the Company's sales organization. Mr. Fodero has more than 20 years of successful executive and sales management experience. Prior to joining the Company, Mr. Fodero served as Director of Global Accounts for Veritas Software from February 2002 until January 2003. Between 1999 and February 2002, Mr. Fodero served in executive sales capacities with companies in the enterprise software industry, including Agile Software, and Memco Software, a leading provider of information security software to Fortune 1000 companies, where he was instrumental in increasing sales and enhancing shareholder value in connection with the sale of Memco to Platinum Technology. From 1990 through 1998, Mr. Fodero served as Vice President of Sales of CommVault Systems, where he grew sales from startup to over \$36 million and participated in a management buyout.

KENNETH S. SOUZA has served as Executive Vice President and General Manager, Law Enforcement since October 18, 2005. From October 2004 to October 2005 Mr. Souza was Chief Technology Officer of the Company. Prior to joining the Company, Mr. Souza was Vice President of Industry Solutions for EMC Corporation. Prior to joining EMC, he was Vice President for e-Commerce Enterprise Systems Solutions for Compaq Computer Corporation for four years. His 25-year technology and market career includes serving in a number of executive positions with Digital Equipment Corporation including Vice President Worldwide Solutions Services and Training, and Director of Workstations Marketing. In the early 1980 s, Mr. Souza held technical sales management positions with Hewlett Packard and Burroughs. Mr. Souza also held executive positions with a venture funded MRP software company.

Directors Terms of Office

Mr. May was initially elected to serve as a director in 2001, and was re-elected in 2004. Mr. Colatosti was initially elected to serve as a director in 2002, and was re-elected in 2004. Mr. DePasquale was initially elected as a director in 2003, and was re-elected in 2004. Mr. Schoenherr was initially elected as a director in 2004. Mr. Romeo was initially elected as a director in 2005. Each such director was elected to serve until the Company s next annual meeting or until his successor is duly elected and qualified in accordance with the By-laws of the Company.

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Audit Committee

The Audit Committee is comprised of John Schoenherr and Jeffrey J. May, who may not qualify as audit committee financial experts under the applicable rules adopted by the Securities and Exchange Commission. However, the Board believes that each Audit Committee member has sufficient knowledge in financial and auditing matters to serve on the Audit Committee. Additionally, the Audit Committee has the ability on its own to retain independent accountants or consultants whenever it deems appropriate.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the U.S. Securities and Exchange Act of 1934, as amended (the Exchange Act), requires the Company's officers and directors and persons who own more than ten percent (10%) of the Company's Common Stock to file with the Securities and Exchange Commission (SEC) initial reports of ownership and reports of changes in ownership of the Company's Common Stock. Such officers, directors and ten percent (10%) stockholders are also required by applicable SEC rules to furnish the Company with copies of all forms filed with the SEC pursuant to Section 16(a) of the Exchange Act. Based solely on its review of the copies of such forms received by it, or written representations from such persons that no other reports were required for such persons, the Company believes that during the fiscal year ended December 31, 2008, all Section 16(a) filing requirements applicable to the Company's officers, directors and ten percent (10%) stockholders were satisfied in a timely fashion, except for the following:

- a) Thomas J. Colatosti one late Form 4 filing with respect to the issuance of a total of 115,241 options on April 18, 2008.

- b) Jeff May one late Form 4 filing with respect to the issuance of a total of 230,481 options on April 18, 2008.

- c) Charles Romeo one late Form 4 filing with respect to the issuance of a total of 82,620 options on April 18, 2008.

- d) John Schoenherr one late Form 4 filing with respect to the issuance of a total of 98,930 options on April 18, 2008.

Code of Ethics

We have adopted a Code of Ethics that applies to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions. Our Code of Ethics is designed to deter wrongdoing and promote: (i) honest and ethical

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conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships; (ii) full, fair, accurate, timely and understandable disclosure in reports and documents that we file with, or submit to, the SEC and in our other public communications; (iii) compliance with applicable governmental laws, rules, and regulations; (iv) the prompt internal reporting of violations of the code to an appropriate person or persons identified in the code; and (v) accountability for adherence to the code. Any person may obtain a copy of our Code of Ethics free of charge by sending a written request for such to the attention of the Chief Financial Officer of the Company, 3349 Highway 138, Building D Suite B, Wall, NJ 07719.

Internet Address and SEC Reports

We maintain a website with the address www.BIO-key.com. We are not including the information contained on our website as a part of, or incorporating it by reference into, this Annual Report on Form 10-K. We make available free of charge through our website our Annual Reports on Form 10-K (and, where applicable, 10-KSB), Quarterly Reports on Form 10-Q (and, where applicable, 10-QSB) and Current Reports on Form 8-K, and amendments to these reports, as soon as reasonably practicable after we electronically file such material with, or furnish such material to, the SEC. Our SEC filings are also available over the internet at the SEC's website www.sec.gov. Members of the public may read and copy any materials the Company files with the SEC at the SEC's public reference room at 100 F Street, NE, Washington, DC 20549. Information on the operation of the public reference room is available by calling the SEC on 1800-SEC-0330.

Table of Contents**ITEM 11. EXECUTIVE COMPENSATION**

The following table sets forth a summary of the compensation paid to or accrued by our chief executive officer (principal executive officer) and the two most highly compensated executive officers other than the principal executive officer, who were serving as executive officers at the end of December 31, 2008, for the fiscal years ended December 31, 2008 and 2007:

SUMMARY COMPENSATION TABLE

Name	Fiscal Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Incentive Plan Compensation (\$)	Nonqualified Deferred Compensation Earnings (\$)	All Other Compensation (\$)	Total (\$)
Michael W. DePasquale Chief Executive Officer	2008	250,000			25,122(1)			775	275,897
	2007	250,000			110,545(1)			775	361,320
Randy Fodero Vice President Sales	2008	170,000			59,046(1)	54,916		527	284,489
	2007	170,000			101,768(1)	57,755		527	330,050
Kenneth S. Souza General Manager, Law Enforcement and Chief Technology Officer	2008	200,000			15,701(1)			620	216,321
	2007	200,000			112,392(1)			620	313,012

(1) The aggregate grant date fair value of the option awards was estimated using the Black-Scholes option pricing model, with the assumptions listed in Note A to the Company's financial statements. The amount shown in this column represents the compensation cost of awards recognized during the year for financial reporting purposes under FAS 123(R), without regard to estimated forfeitures related to service-based vesting conditions for option awards.

Narrative Disclosure to Summary Compensation Table

Compensation for BIO-key's executives is comprised of three main components: base salary, annual performance-based cash bonus and long-term equity awards. We do not target a specific weighting of these three components or use a prescribed formula to establish pay levels. Rather, the board of directors and compensation committee considers changes in the business, external market factors and our financial position each year when determining pay levels and allocating between long-term and current compensation for the named executive officers.

Cash compensation is comprised of base salary and an annual performance-based cash bonus opportunity. The committee generally seeks to set a named executive officer's targeted total cash compensation opportunity within a range that is the average of the applicable peer company and/or general industry compensation survey data, adjusted as appropriate for individual performance and internal pay equity and labor market

conditions.

In setting cash compensation levels, we favor a balance in which base salaries are generally targeted at slightly below the peer average and a bonus opportunity that is targeted at slightly above the average. The committee believes that this higher emphasis on performance-based cash bonuses places an appropriate linkage between a named executive officer's pay, his or her individual performance and the achievement of specific business goals by placing a higher proportion of annual cash compensation at risk, thereby aligning executive opportunity with the interests of stockholders.

We include an equity component as part of our compensation package because we believe that equity-based compensation aligns the long-term interests of our named executive officers with those of stockholders.

These cash and equity compensation components of pay are supplemented by various benefit plans that provide health, life, accident, disability and severance benefits, most of which are the same as the benefits provided to all of our US based employees.

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Employment Agreements

On May 25, 2008, the Company entered into a one-year employment agreement with Michael W. DePasquale to serve as the Chief Executive Officer of the Company at an annual base salary of \$250,000, subject to adjustment by the Board or Compensation Committee. In addition to the Base Salary, a Performance Bonus may be awarded to Mr. DePasquale on the basis of the Company achieving certain corporate and strategic performance goals, as determined by the Board in its sole discretion.

The employment agreement contains standard and customary confidentiality, non-solicitation and work made for hire provisions as well as a covenant not to compete which prohibits Mr. DePasquale from doing business with any current or prospective customer of the Company or engaging in a business competitive with that of the Company during the term of his employment and for the one year period thereafter. This agreement also contains a number of termination provisions as described in Termination and Change in Control Arrangements in this Item.

In connection with his appointment as Senior Vice President and Chief Technology Officer of the Company on October 4, 2004, we entered into a one year employment agreement with Kenneth S. Souza. The employment agreement provides for an annual base salary of \$200,000 and a performance bonus in the amount of up to \$76,000 payable upon achievement of certain performance criteria. Unless notice of non-renewal is provided to Mr. Souza at least two months prior to the end of the term, the employment agreement automatically renews for successive one year terms. This agreement also contains a number of termination provisions as described in Termination Arrangements in this Item.

Stock Option Grants

In the event of any change in the outstanding shares of our common stock by reason of a stock dividend, stock split, combination of shares, recapitalization, merger, consolidation, transfer of assets, reorganization, conversion or what the board deems to be similar circumstances, the number and kind of shares subject to outstanding options, and the exercise price of such options shall be appropriately adjusted in a manner to be determined in the sole discretion of the board. Furthermore, these option agreements contain a change of control provision as described in Termination Arrangements in this Item.

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**OUTSTANDING EQUITY AWARDS AT FISCAL YEAR END
DECEMBER 31, 2008**

The following table sets forth for each named executive officer, information regarding outstanding equity awards as at December 31, 2008:

Name	Option Awards				Stock Awards				
	Number of securities underlying unexercised options exercisable (#)	Number of securities underlying unexercised options unexercisable (#)	Equity incentive plan awards: Number of securities underlying unexercised unearned options (#)	Option exercise price (\$)	Option expiration date	Number of shares or units of stock that have not vested (#)	Market value of shares or units of stock that have not vested (\$)	Equity incentive plan awards: Number of unearned shares or units or other rights that have not vested (#)	Equity incentive plan awards: Market or payout value of unearned shares, units or other rights that have not vested (\$)
Michael W. DePasquale	500,000			1.32	12/11/2010				
	580,000			0.53	1/3/2010				
	400,000			0.75	3/23/2013				
Randy Fodero	600,000			0.60	11/11/2012				
	100,000			0.75	3/23/2013				
Kenneth S. Souza	300,000			1.05	9/15/2011				
	250,000			0.75	3/23/2013				

Narrative Disclosure to Outstanding Equity Awards at Fiscal Year End Table

The following are the material terms of each agreement, contract, plan or arrangement that provide for payments to one or more of our named executive officers at, following or pursuant to their resignation, retirement or termination, or in connection with a change in control of the Company.

Termination Arrangements

On May 25, 2008, the Company entered into a one-year employment agreement with Michael W. DePasquale to serve as the Chief Executive Officer of the Company. The Company may terminate the agreement at any time with or without cause. In the event of termination without cause, Mr. DePasquale shall continue to be paid his then current base salary for twelve months from the date of such termination.

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On October 4, 2008, the Company renewed the annual agreement with Kenneth Souza to serve as Executive Vice President and General Manager, Law Enforcement of the Company. The Company may terminate the agreement at any time with or without cause. In the event of termination without cause, Mr. Souza shall continue to be paid his then current base salary for the greater of six months from the date of such termination or the number of months remaining until the end of the term of the employment agreement.

Change in Control Provisions

The Company's 1996 Stock Option Plan (as amended to date, the 1996 Plan), 1999 Stock Option Plan and 2004 Stock Incentive Plan (the 1999 Plan and together with the 1996 Plan and 2004 Plan, the Plans) provide for the acceleration of the vesting of unvested options upon a Change in Control of the Company. A Change in Control is defined in the Plans to include (i) a sale or transfer of substantially all of the Company's assets; (ii) the dissolution or liquidation of the Company; (iii) a merger or consolidation to which the Company is a party and after which the prior shareholders of the Company hold less than 50% of the combined voting power of the surviving corporation's outstanding securities; (iv) the incumbent directors cease to constitute at least a majority of the Board of Directors; or (v) a change in control of the Company which would otherwise be reportable under Section 13 or 15(d) of the Exchange Act.

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In the event of a Change In Control each Plan provides for the immediate vesting of all options issued thereunder. The 1999 Plan provides for the Company to deliver written notice to each optionee under the 1999 Plan fifteen (15) days prior to the occurrence of a Change In Control during which all options issued under the 1999 Plan may be exercised. Thereafter, all options issued under the 1999 Plan which are neither assumed or substituted in connection with such transaction, automatically expire unless otherwise determined by the Board. The 1996 Plan provides for all options to remain exercisable for the remainder of their respective terms and permits the Company to make a cash payment to any or all optionees equal to the difference between the exercise price of any or all such options and the fair market value of the Company's common stock immediately prior to the Change In Control. The 2004 Plan enables the Board to provide that all outstanding options be assumed, or equivalent options be substituted by the acquiring or succeeding corporation upon the occurrence of a Reorganization Event as defined. If such Reorganization Event also constitutes a Change in Control, then such assumed or substituted options shall be immediately exercisable in full. If the acquiring or succeeding corporation does not agree to assume, or substitute for such options, then the Board, upon written notice to the Participants, may provide that all unexercised options become exercisable in full as of a specified time prior to the Reorganization Event and terminate prior to the consummation of the Reorganization Event. Alternatively, if under the terms and conditions of the Reorganization Event, holders of common stock will receive a cash payment for their shares, then the Board may provide that all Participants receive a cash payment equal to the difference between the Acquisition Price and the Option Price multiplied by the number of options held by such Participants.

Options issued to executive officers outside of the Plans contain change in control provisions substantially similar to those contained in the 1999 Plan.

Table of Contents**DIRECTOR COMPENSATION FOR THE FISCAL YEAR ENDED
DECEMBER 31, 2008**

The following table sets forth for each director, information regarding their compensation for the year ended December 31, 2008:

Name	Fees Earned or Paid in Cash (\$)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Incentive Plan Compensation (\$)	Nonqualified Deferred Compensation Earnings (\$)	All Other Compensation (\$)	Total (\$)
Thomas J. Colatosti			8,333(2)				8,333
Michael W. DePasquale (1)							
Jeffrey J. May			16,667(2)				16,667
Charles P. Romeo			4,746(2)				4,746
John Schoenherr			6,539(2)				6,539

- (1) Refer to Narrative Disclosure To Summary Compensation Table for information pertaining to Mr. DePasquale's employment agreement.
- (2) The aggregate grant date fair value of the option awards was estimated using the Black-Scholes option pricing model, with the assumptions listed in Note A to the Company's financial statements. The amount shown in this column represents the compensation cost of awards recognized during the year for financial reporting purposes under FAS 123(R), without regard to estimated forfeitures related to service-based vesting conditions for option awards.

Narrative Disclosure to Director Compensation Table

Directors who are also officers of the Company receive no additional compensation for serving on the Board of Directors. The Company's current policy is to issue options to purchase 50,000 shares of common stock to each non-employee director on an annual basis. The Chair of the Audit Committee receives options to purchase an additional 50,000 shares of common stock on an annual basis. No options were issued during 2007.

On April 18, 2008, Thomas Colatosti, Jeffrey May, Charles Romeo and John Schoenherr were granted options to purchase 115,241, 230,481, 82,620, and 98,930 shares of common stock, respectively, at an exercise price of \$0.11 per share. Options totaling 65,241, 130,481, 32,620, and 48,930, respectively, immediately vested on issuance, with the remaining options to vest in equal increments over two years. The options expire on April 18, 2015.

In connection with his appointment to the Board of Directors in September 2002, and as acting Chief Financial Officer in November 2008, the Company has entered into a number of consulting arrangements with Thomas Colatosti. Under the most recent arrangement, which was entered into on November 17, 2008, Mr. Colatosti is to provide services to the Company and its subsidiaries and affiliates for a one year term ending November 16, 2009 at a rate of \$12,500 per month.

We reimburse each of our non-employee directors for their reasonable expenses incurred in connection with attending meetings of the board of directors and related committees.

Table of Contents**ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS**

The following table sets forth, as of February 13, 2009, information with respect to the securities holdings of all persons which the Company, pursuant to filings with the Securities and Exchange Commission, has reason to believe may be deemed the beneficial owners of more than five percent (5%) of the Company's outstanding common stock. The following table also sets forth, as of such date, the beneficial ownership of the Company's common stock by all officers and directors, individually and as a group. Unless otherwise indicated, the address of each person listed below is c/o BIO-key International, Inc., 3349 Highway 138, Building D, Suite B, Wall, NJ 07719

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership(1)	Percentage of Class(1)
Thomas J. Colatosti	1,595,241(2)	2.4%
Michael W. DePasquale	2,000,000(3)	2.9%
Jeffrey May	205,481(4)	*
Charles P. Romeo	432,620(5)	*
John Schoenherr	98,930(6)	*
Randy Fodero	700,000(7)	1.0
Kenneth S. Souza	550,000(8)	*
Trellus Management Company, LLC 350 Madison Avenue 9th Floor New York, NY 10017	7,451,812	11.0%
All officers and directors as a group (8) persons	5,582,272	8.2%

* Less than 1%

- (1) The securities beneficially owned by an individual are determined in accordance with the definition of beneficial ownership set forth in the regulations promulgated under the Securities Exchange Act of 1934 and, accordingly, may include securities owned by or for, among others, the spouse and/or minor children of an individual and any other relative who has the same home as such individual, as well as, other securities as to which the individual has or shares voting or investment power or which each person has the right to acquire within 60 days through the exercise of options or otherwise. Beneficial ownership may be disclaimed as to certain of the securities. This table has been prepared based on 67,876,880 shares of common stock outstanding as of February 13, 2009.
- (2) Includes 615,241 shares issuable upon exercise of options and 875,000 shares issuable upon conversion of Series A Preferred Stock. Does not include 100,000 shares issuable upon options subject to vesting.
- (3) Includes 1,980,000 shares issuable upon exercise of options.
- (4) Consists of 205,481 shares issuable upon exercise of options. Does not include 150,000 shares issuable upon options subject to vesting.
- (5) Consists of 432,620 shares issuable upon exercise of options. Does not include 100,000 shares issuable upon options subject to vesting.
- (6) Consists of 98,930 shares issuable upon exercise of options. Does not include 150,000 shares issuable upon options subject to vesting.
- (7) Consists of shares issuable upon exercise of options.
- (8) Consists of shares issuable upon exercise of options.

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The following table sets forth, as of December 31, 2008, information with respect to securities authorized for issuance under equity compensation plans.

EQUITY COMPENSATION PLAN INFORMATION

	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted-average exercise price of outstanding options, warrants and rights (b)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	80,000	\$ 0.47	
Equity compensation plans not approved by security holders	6,927,942	\$ 0.78	2,899,316
Total	7,007,942	\$ 0.78	2,899,316

During 1996, the Board of Directors and stockholders of the Company adopted the 1996 Stock Option Plan (the 1996 Plan). Under the 1996 Plan, 750,000 shares of common stock are reserved for issuance to employees, officers, directors, and consultants of the Company at exercise prices which may not be below 100% of fair market value for incentive stock options and 50% for all others. The term of stock options granted may not exceed ten years. Options issued under the Plan vest pursuant to the terms of stock option agreements with the recipients. In the event of a change in control, as defined, all options outstanding vest immediately. The 1996 Plan expired in May 2005.

As of December 31, 2008, there were outstanding options under the 1996 Plan to purchase 80,000 shares of common stock, and no shares were available for future grants.

The Company's 1999 Stock Option Plan (the 1999 Plan) was adopted by the Board of Directors of the Company on or about August 31, 1999. The material terms of the 1999 Plan are summarized below.

The 1999 Plan is currently administered by the Board of Directors of the Company (the Plan Administrator). The Plan Administrator is authorized to construe the 1999 Plan and any option issued under the 1999 Plan, select the persons to whom options may be granted, and determine the number of shares to be covered by any option, the exercise price, vesting schedule and other material terms of such option.

The 1999 Plan provides for the issuance of options to purchase up to 2,000,000 shares of common stock to officers, employees, directors and consultants of the Company at exercise prices not less than 85% of the last sale price of the Company's common stock as reported on the OTC Bulletin Board on the date of grant. Options have terms of not more than 10 years from the date of grant, are subject to vesting as determined by the Plan Administrator and are not transferable without the permission of the Company except by will or the laws of descent and distribution or pursuant to a domestic relations order. Options terminate three (3) months after termination of employment or other association with the Company or one (1) year after termination due to disability, death or retirement. In the event that termination of employment or association is for a cause, as that term is defined in the 1999 Plan, options terminate immediately upon such termination. The Plan Administrator has the

discretion to extend options for up to three years from the date of termination or disassociation with the Company.

The 1999 Plan provides for the immediate vesting of all options in the event of a Change In Control of the Company. In the event of a Change In Control, the Company is required to deliver written notice to each optionee under the 1999 Plan fifteen (15) days prior to the occurrence of a Change in Control, during which time all options issued under 1999 Plan may be exercised. Thereafter, all options issued under the 1999 Plan which are neither assumed or substituted in connection with such transaction, automatically expire, unless otherwise determined by the Board. Under the 1999 Plan, a Change In Control is defined to include (i) a sale or transfer of substantially all of the Company's assets; (ii) the dissolution or liquidation of the Company; (iii) a merger or consolidation to which the Company is a party and after which the prior shareholders of the Company hold less than 50% of the combined voting power of the surviving corporation's outstanding securities; (iv) the incumbent directors cease to constitute at least a majority of the Board of Directors; or (v) a change in control of the Company which would otherwise be reportable under Section 13 or 15(d) of the Exchange Act. The 1999 Plan expires in August 2009.

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As of December 31, 2008, there were outstanding options under the 1999 Plan to purchase 335,000 shares of common stock, and options to purchase an aggregate of 1,374,257 shares were available for future grants.

On October 12, 2004, the Board of Directors of the Company approved the 2004 Stock Option Plan (the 2004 Plan). The 2004 Plan has not yet been presented to stockholders for approval and thus incentive stock options are not available under this plan. Under the terms of this plan, 4,000,000 shares of common stock are reserved for issuance to employees, officers, directors, and consultants of the Company at exercise prices which may not be below 85% of fair market value. The term of stock options granted may not exceed ten years. Options issued under the 2004 Plan vest pursuant to the terms of stock option agreements with the recipients. In the event of a change in control, as defined, all options outstanding vest immediately. The 2004 Plan expires in October 2014.

As of December 31, 2008, there were outstanding options under the 2004 Plan to purchase 2,837,941 shares of common stock, and options to purchase an aggregate of 1,162,059 shares were available for future grants.

In addition to options issued under the 1996, 1999 and 2004 Plans, the Company has issued options to employees, officers, directors and consultants to purchase common stock under the non plan. As of December 2008, there were outstanding options under the non plan to purchase 3,755,000 shares of common stock. The terms of these options are substantially similar to the provisions of the 1999 Plan and options issued thereunder.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Employment Arrangements

The Company has entered into employment agreements with Michael W. DePasquale and Kenneth S. Souza. See **EXECUTIVE COMPENSATION Employment Agreements.**

Consulting Arrangement with Thomas J. Colatosti

In connection with his appointment to the Board of Directors in September 2002, and as acting Chief Financial Officer in November 2008, the Company has entered into a number of consulting arrangements with Thomas J. Colatosti. Under the most recent arrangement, which was entered into on November 17, 2008, Mr. Colatosti is to provide services to the Company and its subsidiaries and affiliates for a one year term ending November 16, 2009 at a rate of \$12,500 per month.

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Under the previous arrangement, which was entered into on July 12, 2007, Mr. Colatosti, provided services to the Company and its subsidiaries and affiliates for the year ended December 31, 2007 at a rate of \$12,000 per month.

Director Independence

The Board applies the definition of independent director as set forth in NASDAQ Stock Market Rule 4200 (a)(15), as well as Rule 10A-3 under the Securities Exchange Act of 1934, as amended.

In accordance with this guidance, the Board considers Mr. May, Mr. Schoenherr, and Mr. Romeo to be independent. Mr. May and Mr. Schoenherr are the members of the Company's Audit Committee, while Mr. Schoenherr and Mr. Romeo are the members of the Company's Compensation Committee.

Table of Contents**ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES**

The following table shows fees for professional audit services billed to us by CCR LLP (CCR) and DS&B, Ltd. (DS&B) for the audit of our annual consolidated financial statements for the years ended December 31, 2008, and 2007, and fees billed to us by CCR and DS&B for other services during 2008 and 2007:

	2008	2007
Audit Fees:		
CCR	\$ 148,400	\$ 177,718
DS&B		2,148
	148,400	179,866
Audit-Related Fees		
CCR	6,800	
Tax Fees:		
CCR	51,670	32,004
DS&B		459
	51,670	32,463
Total Fees	\$ 206,870,329	\$ 212,329

Audit Fees consist of fees billed for professional services rendered for the audit of our financial statements and review of the interim financial statements included in quarterly reports and services that are normally provided by CCR and DS&B in connection with statutory and regulatory filings or engagements. Audit fees also include fees for services provided in connection with registration of securities, comfort letters, and review of documents filed with the SEC.

Audit-Related Fees consist of fees billed for assurance and related services that are reasonably related to the performance of the audit or review of our financial statements and which are not reported under audit fees. These services relate primarily to mergers and acquisitions due diligence as well as advisory services as it pertains to the Sarbanes-Oxley Act and related rules and regulations;

Tax Fees consist of fees billed for professional services for tax compliance assistance rendered during the fiscal year.

Audit Committee Pre-Approval Procedures

The Audit Committee of our Board of Directors consists of Jeffrey J. May and John Schoenherr. The Audit Committee approves the engagement of our independent auditors to render audit and non-audit services before they are engaged. All of the fees for 2008 and 2007 shown above were pre-approved by the Audit Committee.

The Audit Committee pre-approves all audit and other permitted non-audit services provided by our independent auditors. Pre-approval is generally provided for up to one year, is detailed as to the particular category of services and is subject to a monetary limit. Our independent auditors and senior management periodically report to the Audit Committee the extent of services provided by the independent auditors in accordance with the pre-approval, and the fees for the services performed to date. The Audit Committee may also pre-approve particular services on a case-by-case basis.

Our audit committee will not approve engagements of our independent registered public accounting firm to perform non-audit services for us if doing so will cause our independent registered public accounting firm to cease to be independent within the meaning of applicable SEC rules. In other circumstances, our audit committee considers, among other things, whether our independent registered public accounting firm is able to provide the required services in a more or less effective and efficient manner than other available service providers.

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ITEM 15. EXHIBITS

(a) The following documents are filed as part of this Report. Portions of Item 13 are submitted as separate sections of this Report:

(1) Financial statements filed as part of this Report:

Report of Independent Registered Public Accounting Firm

Balance Sheets as at December 31, 2008 and 2007

Statements of Operations Years ended December 31, 2008 and 2007

Statement of Stockholders Equity (Deficit) Years ended December 31, 2008 and 2007

Statements of Cash Flows Years ended December 31, 2008 and 2007

Notes to Financial Statements December 31, 2008 and 2007

(2) The exhibits listed in the Exhibits Index immediately preceding such exhibits are filed as part of this Report

ITEM 8 FINANCIAL STATEMENTS

The following financial statements of BIO-key International, Inc. are included herein at the indicated page numbers:

<u>Report of Independent Registered Public Accounting Firm, CCR LLP</u>	45
<u>Balance Sheets as at December 31, 2008 and 2007</u>	46
<u>Statements of Operations Years ended December 31, 2008 and 2007</u>	47

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<u>Statement of Stockholders' Equity (Deficit) Years ended December 31, 2008 and 2007</u>	48
<u>Statements of Cash Flows Years ended December 31, 2008 and 2007</u>	49
<u>Notes to the Financial Statements December 31, 2008 and 2007</u>	50

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Report of Independent Registered Public Accounting Firm

The Board of Directors and Stockholders
BIO-key International, Inc.

Marlborough, MA

We have audited the accompanying consolidated balance sheets of BIO-key International, Inc. and Subsidiary as of December 31, 2008 and 2007, and the related consolidated statements of operations, stockholders' equity (deficit) and cash flows for each of the years in the two-year period ended December 31, 2008. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

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

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

The accompanying consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As disclosed in the consolidated financial statements, the Company has suffered substantial net losses in recent years, and has an accumulated deficit at December 31, 2008, which raise substantial doubt about the Company's ability to continue as a going concern. Management's plans regarding these matters are disclosed in Note A. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

/s/ CCR LLP

Westborough, Massachusetts
March 9, 2009

Table of Contents**BIO-key International, Inc and Subsidiary****CONSOLIDATED BALANCE SHEETS**

	December 31,	
	2008	2007
ASSETS		
Cash and cash equivalents	\$ 1,712,912	\$ 964,774
Restricted cash		153,094
Accounts receivable, net of allowance for doubtful accounts of \$82,398 at December 31, 2008 and \$113,771 December 31, 2007	721,022	2,129,797
Costs and earnings in excess of billings on uncompleted contracts	144,551	233,805
Inventory	13,159	4,879
Prepaid expenses	96,109	119,068
Total current assets	2,687,753	3,605,417
Equipment and leasehold improvements, net	92,238	177,282
Deposits and other assets	7,812	487,815
Restricted cash	40,500	
Intangible assets less accumulated amortization	582,701	1,324,269
Goodwill	7,836,986	7,836,986
Total non-current assets	8,560,237	9,826,352
TOTAL ASSETS	\$ 11,247,990	\$ 13,431,769
LIABILITIES		
Accounts payable	\$ 280,994	\$ 1,162,690
Accrued liabilities	1,301,889	3,401,749
Notes payable	1,516,651	
Deferred rent	6,541	367,986
Deferred revenue	3,684,476	4,468,748
Total current liabilities	6,790,551	9,401,173
Warrants	12,317	64,520
Redeemable preferred stock derivatives	439	41,295
Deferred rent	11,510	
Deferred revenue	8,382	34,518
Total non-current liabilities	32,648	140,333
TOTAL LIABILITIES	6,823,199	9,541,506
Commitments and contingencies		
Series B redeemable convertible preferred stock: authorized, 1,000,000 shares (liquidation preference of \$1 per share); issued and outstanding 970,612 shares of \$.0001 par value at December 31, 2008 and December 31, 2007	1,008,224	881,340
Series C redeemable convertible preferred stock: authorized, 600,000 shares (liquidation preference of \$10 per share); issued and outstanding 592,032 shares of \$.0001 par value at December 31, 2008 and December 31, 2007	6,498,516	5,776,231
	7,506,740	6,657,571
STOCKHOLDERS DEFICIT:		
Series A convertible preferred stock: authorized, 100,000 shares (liquidation preference of \$100 per share); issued and outstanding 30,557 shares of \$.0001 par value, at December 31, 2008 and December 31, 2007	3	3
Common stock authorized, 170,000,000 shares; issued and outstanding; 67,876,880 and 61,153,202 of \$.0001 par value at December 31, 2008 and December 31, 2007, respectively	6,788	6,115

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Additional paid-in capital	51,692,103	52,126,595
Accumulated deficit	(54,780,843)	(54,900,021)
TOTAL STOCKHOLDERS DEFICIT	(3,081,949)	(2,767,308)
TOTAL LIABILITIES AND STOCKHOLDERS DEFICIT	\$ 11,247,990	\$ 13,431,769

The accompanying notes are an integral part of these statements.

Table of Contents**BIO-key International, Inc. and Subsidiary****STATEMENTS OF OPERATIONS**

	Years ended December 31,	
	2008	2007
Revenues		
Services	\$ 7,236,737	\$ 6,965,706
License fees and other	5,639,310	3,022,750
	12,876,047	9,988,456
Costs and other expenses		
Cost of services	1,266,248	1,493,341
Cost of license fees and other	468,893	291,435
	1,735,141	1,784,776
Gross Profit	11,140,906	8,203,680
Operating expenses		
Selling, general and administrative	6,553,922	8,573,863
Research, development and engineering	4,488,792	4,994,799
	11,042,714	13,568,662
Operating income/(loss)	98,192	(5,364,982)
Other income (deductions)		
Interest income	1,339	3,097
Interest expense	(92,520)	(832,457)
Derivative and warrant fair value adjustments	93,059	1,016,845
Gain on sale of investments	119,348	
Loss on extinguishment of debt		(403,940)
Other income (expense)	(34,885)	12,102
	86,341	(204,353)
Income/(loss) from continuing operations	184,533	(5,569,335)
Income from discontinued operations		440,105
Gain/(loss) on disposal of discontinued operations, net of expected tax of \$0.	(65,354)	4,072,006
Net Income/(loss)	\$ 119,179	\$ (1,057,224)
Loss applicable to common stockholders		
Income/(loss) from continuing operations	184,533	(5,569,335)
Convertible preferred stock dividends and accretion	(1,890,503)	(1,891,624)
Loss applicable to common stockholders	\$ (1,705,970)	\$ (7,460,959)
Basic and Diluted Earnings per Common Share:		
Loss applicable to common stockholders	\$ (0.03)	\$ (0.13)
Income from discontinued operations		0.01
Gain/(loss) on disposal of discontinued operations	(0.00)	0.07
Net loss	\$ (0.03)	\$ (0.05)
Weighted Average Shares Outstanding:		
Basic and Diluted	64,159,473	58,692,979

The accompanying notes are an integral part of these statements.

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BIO-key International, Inc. and Subsidiary
STATEMENT OF STOCKHOLDERS EQUITY (DEFICIT)

	Series B 15% Convertible Preferred Stock		Series C 15% Convertible Preferred Stock		Series A 7% Convertible Preferred Stock		Common Stock		Additional Contributed Capital	Accumulated Deficit	Total
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount			
Balance as of December 31, 2006	1,000,000	\$ 824,438	592,032	\$ 5,234,214	30,557	\$ 3	55,158,814	\$ 5,516	\$ 51,093,919	\$ (53,842,797)	\$ (2,743,359)
Accretion of preferred stock discount		126,480		449,444					(575,924)		(575,924)
Accretion of preferred stock dividends		149,341		903,243					(1,052,584)		(1,052,584)
Accretion of stock issuance costs				46,248					(46,248)		(46,248)
Conversion of preferred stock and cumulative dividends in arrears into common stock	(29,388)	(218,919)		(856,918)			4,576,206	457	1,119,773		1,120,230
Conversion of principal and accrued interest on convertible notes into common stock							1,418,182	142	772,623		772,765
Fair market adjustment on equity issuance and warrant modification									124,999		124,999
Share-based compensation									690,037		690,037
Net loss										(1,057,224)	(1,057,224)
Balance as of December 31, 2007	970,612	\$ 881,340	592,032	\$ 5,776,231	30,557	\$ 3	61,153,202	\$ 6,115	\$ 52,126,595	\$ (54,900,021)	\$ (2,767,308)
Accretion of preferred stock discount		126,480		449,444					(575,924)		(575,924)
Accretion of preferred stock dividends		148,422		905,316					(1,053,738)		(1,053,738)
Accretion of stock issuance costs				46,247					(46,247)		(46,247)

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Conversion of preferred stock and cumulative dividends in arrears into common stock	(148,018)	(678,722)	6,723,678	673	826,067	826,739
Share-based compensation					415,350	415,350
Net income						119,179
Balance as of December 31, 2008	970,612	\$ 1,008,224	592,032	\$ 6,498,516	30,557	\$ 3 67,876,880
						\$ 6,788
						\$ 51,692,103
						\$ (54,780,843)
						\$ (3,081,949)

The accompanying notes are an integral part of these statements.

Table of Contents**BIO-key International, Inc. and Subsidiary****STATEMENTS OF CASH FLOWS**

	Years ended December 31,	
	2008	2007
CASH FLOW FROM OPERATING ACTIVITIES:		
Net Income/(loss)	\$ 119,179	\$ (1,057,224)
Less:		
Income from discontinued operations		(440,105)
Loss/(gain) on disposal of discontinued operations	65,354	(4,072,006)
Income/(loss) from continuing operations	184,533	(5,569,335)
Adjustments to reconcile net loss to cash used in operating activities:		
Derivative and warrant fair value adjustments	(93,059)	(1,016,845)
Gain on sale of investments	(119,348)	
Loss on extinguishment of debt		403,003
Depreciation	112,669	252,678
Amortization		
Intangible assets	741,568	761,258
Deferred financing costs		83,871
Discounts on convertible debt related to warrants and beneficial conversion features		360,245
Allowance for doubtful receivables	(31,373)	(27,856)
Deferred rent	(349,935)	(499,864)
Fair market value adjustment on equity issuance and warrant modification		124,999
Share-based compensation	415,350	657,599
Change in assets and liabilities:		
Accounts receivable trade	1,440,148	748,647
Costs and earnings in excess of billings on uncompleted contracts	89,254	920,054
Inventory	(8,280)	6,488
Prepaid expenses and other	22,959	1,162
Accounts payable	(33,105)	(174,394)
Billings in excess of costs and earnings on uncompleted contracts		(11,429)
Accrued liabilities	(591,680)	(500,812)
Note payable	(840,120)	
Deferred revenue	(810,408)	742,931
Net cash provided/(used) for continuing operations	129,173	(2,737,600)
Net cash provided by discontinued operations		576,383
Net cash provided/(used) for operating activities	129,173	(2,161,217)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Capital expenditures	(38,156)	(49,211)
Deposits	480,003	312,538
Proceeds from the sale of the Fire/EMS business	(65,354)	7,000,000
Transfer of funds from (to) restricted cash	112,594	(153,094)
Proceeds from sale of investments	119,348	
Proceeds from sale of assets	10,530	
Patent costs		58,164
Net cash provided by continuing operations	618,965	7,168,397
Net cash used for discontinued operations		(7,615)
Net cash provided by investing activities	618,965	7,160,782
CASH FLOW FROM FINANCING ACTIVITIES:		
Repayment of long term obligations		(4,661,958)
Net cash used for continuing operations		(4,661,958)
Net cash used for discontinued operations		

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Net cash used for financing activities			(4,661,958)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	748,138		337,607
CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD	964,774		627,167
CASH AND CASH EQUIVALENTS, END OF PERIOD	\$ 1,712,912	\$	964,774

The accompanying notes are an integral part of these statements.

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BIO-key International, Inc. and Subsidiary

NOTES TO THE FINANCIAL STATEMENTS

December 31, 2008 and 2007

NOTE A THE COMPANY AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Business

The Company, founded in 1993, made two strategic acquisitions in 2004. The Company acquired Public Safety Group Inc. (PSG) in March, 2004, and the Mobile Government division of Aether Systems, Inc. (AMG or Mobile Government) in September, 2004.

BIO-key develops and markets proprietary fingerprint identification biometric technology and software solutions. We also deliver advanced identification solutions and information services to law enforcement departments, public safety agencies and other government and private sector customers. Our mobile wireless technology provides first responders with critical, reliable, real-time data and images from local, state and national databases.

Basis of Presentation

We have only recently begun to generate significant revenues and have incurred significant losses to date, and at December 31, 2008, we had an accumulated deficit of approximately \$55 million. In addition, broad commercial acceptance of our technology is critical to the Company's success and ability to generate future revenues.

If the Company is unable to generate sufficient revenue to meet our goals, we will need to obtain additional third-party financing to (i) conduct the sales, marketing and technical support necessary to execute our plan to substantially grow operations, increase revenue and serve a significant customer base; and (ii) provide working capital. No assurance can be given that any form of additional financing will be available on terms acceptable to the Company, that adequate financing will be obtained by the Company in order to meet its needs, or that such financing would not be dilutive to existing shareholders.

The accompanying financial statements have been prepared in conformity with accounting principles generally accepted in the United States, which contemplate continuation of the Company as a going concern, and assumes continuity of operations, realization of assets and the satisfaction of liabilities and commitments in the normal course of business. The matters described in the preceding paragraphs raise substantial doubt about the Company's ability to continue as a going concern. Recoverability of a major portion of the recorded asset amounts shown in the accompanying balance sheet is dependent upon the Company's ability to meet its financing requirements on a continuing basis, and become profitable in its future operations. The accompanying consolidated financial statements do not include any adjustments relating to the recoverability and classification of recorded assets or the amounts and classification of liabilities that might be necessary should the Company be unable to continue in existence.

Summary of Significant Accounting Policies

A summary of the significant accounting policies consistently applied in the preparation of the accompanying consolidated financial statements follows:

1. *Basis of Consolidation*

The accompanying consolidated financial statements include the accounts of BIO-key International, Inc. and its wholly owned subsidiary (collectively, the Company) and are stated in conformity with accounting principles generally accepted in the United States, pursuant to the rules and regulations of the Securities and Exchange Commission. Intercompany accounts and transactions have been eliminated in consolidation.

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2. Revenue Recognition

Revenues from software licensing are recognized in accordance with Statement of Position (SOP) No. 97-2, Software Revenue Recognition, as amended by SOP No. 98-9. Accordingly, revenue from software licensing is recognized when all of the following criteria are met: persuasive evidence of an arrangement exists, delivery has occurred, the fee is fixed or determinable, and collectability is probable.

The Company intends to enter into arrangements with end users for items which may include software license fees, and services or various combinations thereof. For each arrangement, revenues will be recognized when evidence of an agreement has been documented, the fees are fixed or determinable, collection of fees is probable, delivery of the product has occurred and no other significant obligations remain.

Multiple-Element Arrangements: For multiple-element arrangements, each element of the arrangement will be analyzed and the Company will allocate a portion of the total fee under the arrangement to the elements using vendor specific objective evidence of fair value of the element, regardless of any separate prices stated within the contract for each element. Vendor specific objective evidence is based on the price the customer is required to pay when the element is sold separately (i.e., software license fees charged when consulting or other services are not provided, hourly rates charged for consulting services when sold separately from a software license). If vendor specific objective evidence of fair value does not exist for any undelivered elements, all revenue is deferred and recognized ratably over the service period if the undelivered element is services, or until sufficient objective evidence of fair value exists or all elements have been delivered.

License Revenues: Amounts allocated to license revenues are recognized at the time of delivery of the software and all other revenue recognition criteria discussed above have been met.

Revenue from licensing software, which requires significant customization and modification, is recognized using the percentage of completion method, based on the hours of effort incurred by the company in relation to the total estimated hours to complete. In instances where third party hardware, software or services form a significant portion of a customer's contract, the company recognizes revenue for the element of software customization by the percentage of completion method described above. Third party hardware, software, and services are recognized upon shipment or acceptance as appropriate. If the company makes different judgments or utilizes different estimates of the total amount of work expected to be required to customize or modify the software, the timing and revenue recognition, from period to period, and the margins on the project in the reporting period, may differ materially from amounts reported. Revenues earned but not yet billed are shown as an asset in Costs and Earnings in Excess of Billings in the balance sheet. Billings in excess of cost and earnings are reflected as a liability in the balance sheet. Anticipated contract losses are recognized as soon as they become known and are estimable.

Service Revenues: Revenues from services are comprised of maintenance and consulting and implementation services. Maintenance revenues include providing for unspecified when-and-if available product updates and customer telephone support services, and are recognized ratably over the term of the service period. Consulting services are generally sold on a time-and-materials basis and include a range of services including installation of software and assisting in the design of interfaces to allow the software to operate in customized environments. Services are generally separable from other elements under the arrangement since performance of the services are not essential to the functionality of any other element of the transaction and are described in the contract such that the total price of the arrangement would be expected to vary as the result of the inclusion or exclusion of the services. Revenues from services are generally recognized as the services are performed.

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The Company provides customers, free of charge or at a minimal cost, testing kits which potential licensing customers may use to test compatibility/acceptance of the Company's technology with the customer's intended applications.

Costs and other expenses: Includes professional compensation and other direct contract expenses, as well as costs attributable to the support of client service professional staff, depreciation and amortization costs related to assets used in revenue-generating activities, and other costs attributable to serving the Company's client base. Professional compensation consists of payroll costs and related benefits including stock-based compensation and bonuses. Other direct contract expenses include costs directly attributable to client engagements, such as out-of-pocket costs including travel and subsistence for client service professional staff, costs of hardware and software and costs of subcontractors. The allocation of lease and facilities charges for occupied offices are included in costs of service.

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3. Cash and Cash Equivalents

Cash equivalents consist of certificates of deposit and all other liquid investments with original maturities of three months or less. The Company maintains its cash balances in a financial institution in Nevada. These balances are insured by the Federal Deposit Insurance Corporation up to \$250,000.

4. Accounts Receivable

Accounts receivable billed and unbilled are carried at original amount less an estimate made for doubtful receivables based on a review of all outstanding amounts on a monthly basis. Management determines the allowance for doubtful receivables by regularly evaluating individual customer receivables and considering a customer's financial condition, credit history, and current economic conditions. Accounts receivable are written off when deemed uncollectible. Recoveries of accounts receivable previously written off are recorded when received.

5. Accounting for Acquisitions

Acquisitions are accounted for under the purchase method of accounting, which resulted in recording significant goodwill and other intangible asset balances. The purchase prices are allocated to assets acquired and liabilities assumed at their estimated fair values on the date of the acquisitions, as determined by management, and by appraisals with respect to identifiable intangible assets. Accounting for acquisitions involves significant judgments and estimates regarding fair values of acquired intangible assets, which are based on projections of future revenues and cash flows, assumptions regarding discount factors, royalty rates, tax rates, amortization methodologies and related useful lives. Developed technology (software), copyrighted software, marketing agreements, customer relationships and trademarks are valued using the income approach.

6. Depreciation and Amortization

Depreciation is provided for in amounts sufficient to relate the cost of depreciable assets to operations over the estimated service lives, principally using straight-line methods. Leasehold improvements are amortized over the shorter of the life of the improvement or the lease term, using the straight-line method. Intangible assets other than patent costs are amortized on the straight-line method over their expected useful lives. Patent costs are capitalized until patents are awarded. Upon award, such costs are amortized over their respective lives. If a patent is denied, all costs are charged to operations in that year. Deferred financing fees related to the issuance of long-term obligations are capitalized and amortized to interest expense over the lives of the related debt using the effective interest rate method.

The estimated useful lives used to compute depreciation and amortization for financial reporting purposes are as follows:

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<i>Equipment and leasehold improvements</i>	
Equipment	3-5 years
Furniture and fixtures	3-5 years
Software	3 years
Leasehold improvements	life or lease term
<i>Intangible assets</i>	
Copyrighted software	5 years
Customer relationships	5 years
Trademarks	5 years
Developed technology	5 years
Marketing agreements	5 years
Patents	life
<i>Deferred financing fees</i>	3 years

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The estimated aggregate amortization expense of intangible assets for the five years following December 31, 2008 is approximately as follows:

Year ending December 31,	(\$)
2009	342,597
2010	12,315
2011	12,315
2012	12,315
2013	12,315

7. Derivative and Warrant Financial Instruments

In connection with the sale of debt or equity instruments, we may sell options or warrants to purchase our common stock. In certain circumstances, these options or warrants may be classified as derivative liabilities, rather than as equity. Additionally, the debt or equity instruments may contain embedded derivative instruments, such as conversion options, which in certain circumstances may be required to be bifurcated from the associated host instrument and accounted for separately as a derivative instrument asset or liability.

The identification of, and accounting for, derivative instruments is complex. Our derivative instrument liability is re-valued at the end of each reporting period, with changes in the fair value of the derivative liability recorded as charges or credits to income, in the period in which the changes occur. For options, warrants and bifurcated conversion options that are accounted for as derivative instrument liabilities, we determine the fair value of these instruments using the Black-Scholes or Binomial option pricing model. That model requires assumptions related to the remaining term of the instruments and risk-free rates of return, our current common stock price and expected dividend yield, and the expected volatility of our common stock price over the life of the option. The identification of, and accounting for, derivative instruments and the assumptions used to value them can significantly affect our financial statements.

8. Goodwill and Intangible Assets

Goodwill represents the excess of costs of an acquired entity over the net of the amounts assigned to assets acquired and liabilities assumed. The Company has adopted Statement of Financial Accounting Standards No. 142 (SFAS 142), Goodwill and Other Intangible Assets., which requires the Company to test goodwill for impairment annually or whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, rather than amortize. Accordingly, the Company has not amortized goodwill. As provided by SFAS No. 142, the Company has elected to perform the annual assessment of the carrying value of all goodwill as of September 30th of each year using a number of criteria, including the value of the overall enterprise. As of December 31, 2008 and 2007, the Company believes that no impairment exists. Future impairment charges from previous or future acquisitions, if any, will be reflected as an operating expense in the statement of operations.

9. Impairment of Long-Lived Assets

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The Company has adopted SFAS No. 144, Accounting for the Impairment or Disposal of Long-Lived Assets. In accordance with SFAS No. 144, long-lived assets subject to depreciation and amortization are reviewed for impairment whenever events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. The Company's long-lived assets consist primarily of its equipment and leasehold improvements and its intangible assets. Upon indication of possible impairment, the Company evaluates the recovery of held-for-use long-lived assets by measuring the carrying value of the assets against the related estimated undiscounted future cash flows. When an evaluation indicates that the future undiscounted cash flows are not sufficient to recover the carrying value of the asset, the asset is adjusted to its estimated fair value. The following circumstances would be considered important and could lead to an impairment review; significant changes in the manner of our using the asset, negative industry or economic trends and underperformance relative to projected operating results.

10. *Advertising Expense*

The Company expenses the costs of advertising as incurred. Advertising expenses for the years ended December 31, 2008 and 2007, were approximately \$131,000 and \$144,000, respectively.

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11. *Deferred Revenue*

Deferred revenue includes customer advances and amounts that have been billed per the contractual terms but have not been recognized as revenue. The majority of these amounts are related to maintenance contracts for which the revenue is recognized ratably over the applicable term, which generally is 12 months from the date the customer accepts the products.

12. *Research and Development Expenditures*

Research and development expenses include costs directly attributable to the conduct of research and development programs primarily related to the development of our software products and improving the efficiency and capabilities of our existing software. Such costs include salaries, payroll taxes, employee benefit costs, materials, supplies, depreciation on research equipment, services provided by outside contractors, and the allocable portions of facility costs, such as rent, utilities, insurance, repairs and maintenance, depreciation and general support services. All costs associated with research and development are expensed as incurred.

13. *Earnings Per Share of Common Stock*

Earnings per share of common stock-basic is computed by dividing net income applicable to common stockholders by the weighted-average number of common shares outstanding for the period. Earnings per share of common stock-assuming dilution reflects the maximum potential dilution that could occur if securities or other contracts to issue common stock were exercised or converted into common stock and would then share in the net income of the company. See Note V - Earnings Per Share EPS, for additional information.

14. *Accounting for Stock-Based Compensation*

The Company accounts for share based compensation in accordance with the provisions of SFAS 123R, which requires measurement of compensation cost for all stock awards at fair value on date of grant and recognition of compensation over the service period for awards expected to vest. The majority of our share-based compensation arrangements vest over either a three or four year vesting schedule. The Company expenses its share-based compensation under the ratable method, which treats each vesting tranche as if it were an individual grant. The fair value of stock options is determined using the Black-Scholes valuation model, and requires the input of highly subjective assumptions. These assumptions include estimating the length of time employees will retain their vested stock options before exercising them (the expected option term), the estimated volatility of our common stock price over the option's expected term, the risk-free interest rate over the option's expected term, and the Company's expected annual dividend yield. Changes in these subjective assumptions can materially affect the estimate of fair value of stock-based compensation and consequently, the related amount recognized as an expense in the consolidated statements of operations. As required under the accounting rules, we review our valuation assumptions at each grant date and, as a result, are likely to change our valuation assumptions used to value employee stock-based awards granted in future periods. The values derived from using the Black-Scholes model are recognized as expense over the service period, net of estimated forfeitures (the number of individuals that will ultimately not complete their vesting requirements). The estimation of stock awards that will ultimately vest requires significant judgment. We consider many factors when estimating expected forfeitures, including types of awards, employee class, and historical experience. Actual results, and future changes in estimates, may differ substantially from our current estimates.

The compensation expense recognized under SFAS 123R increased the Company's loss from continuing operations by \$415,350 and \$657,599 with a \$0.01 effect per share (basic and diluted), for the years ended December 31, 2008 and 2007 respectively.

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The following table presents share-based compensation expenses for continuing operations included in the Company's consolidated statements of operations:

	Year ended December 31,	
	2008	2007
Cost of services	\$ 16,494	\$ 18,842
Selling, general and administrative	279,818	467,583
Research, development and engineering	119,038	171,174
	\$ 415,350	\$ 657,599

Valuation Assumptions for Stock Options

For the years ended December 31, 2008 and 2007, 759,272 and 290,000 stock options were granted, respectively. The fair value of each option was estimated on the date of grant using the Black-Scholes option-pricing model with the following assumptions:

	Year ended December 31,	
	2008	2007
Risk free interest rate	2.95-3.72%	4.58-4.68%
Expected life of options (in years)	4.5	4.5
Expected dividends	0%	0%
Volatility of stock price	87-88%	86-88%

The stock volatility for each grant is determined based on the review of the experience of the weighted average of historical daily price changes of the Company's common stock over the expected option term. The expected term was determined using the simplified method for estimating expected option life, which qualify as "plain-vanilla" options; and the risk-free rate is based on the U.S. Treasury yield curve in effect at the time of grant for periods corresponding with the expected life of the option.

15. Income Taxes

The provision for, or benefit from, income taxes includes deferred taxes resulting from the temporary differences in income for financial and tax purposes using the liability method. Such temporary differences result primarily from the differences in the carrying value of assets and liabilities. Future realization of deferred income tax assets requires sufficient taxable income within the carryback, carryforward period available under tax law. The Company evaluates, on a quarterly basis whether, based on all available evidence, if it is probable that the deferred income tax assets are realizable. Valuation allowances are established when it is more likely than not that the tax benefit of the deferred tax asset will not be realized. The evaluation, as prescribed by Statement of Financial Accounting Standards No. 109, "Accounting for Income Taxes," includes the consideration of all available evidence, both positive and negative, regarding historical operating results including recent years with reported losses, the estimated timing of future reversals of existing taxable temporary differences, estimated future taxable income exclusive of reversing temporary differences and carryforwards, and potential tax planning strategies which may be employed to prevent an operating loss or tax credit carryforward from expiring unused. Because of the Company's historical performance and estimated future taxable income a full valuation

allowance has been established.

16. *Use of Estimates*

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

Estimates and assumptions which, in the opinion of management are used in accounting for, among other things, long-

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term contracts, allowances for uncollectible receivables, recoverability of goodwill and other long-lived assets, depreciation and amortization, valuation of deferred income taxes, convertible notes and related discounts, embedded derivatives, preferred stock, share-based compensation, and warrants outstanding.

17. *Comprehensive Income/(Loss)*

Comprehensive income/(loss) consists of net loss and other gains and losses affecting shareholders' equity/(deficit) that, under generally accepted accounting principles, are excluded from net income/(loss) in accordance with Statement of Financial Accounting Standards No. 130, Reporting Comprehensive Income. The Company, however, does not have any components of other comprehensive income/(loss) as defined by SFAS No. 130 and therefore, for the years ended December 31, 2008 and 2007, comprehensive income/(loss) is equivalent to the Company's reported net income/(loss). Accordingly, a separate statement of comprehensive income/(loss) is not presented.

18. *Recent Accounting Pronouncements*

In September 2006, the FASB issued SFAS No. 157, *Fair Value Measurements* (SFAS 157), which is effective for calendar year companies on January 1, 2008. This Statement defines fair value, establishes a framework for measuring fair value and expands the related disclosure requirements. Management has adopted SFAS 157. The adoption of SFAS 157 had no impact on the Company's financial condition and results of operations in 2008.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Financial Liabilities* (SFAS 159), which is effective for calendar year companies on January 1, 2008. The statement allows an entity the irrevocable option to elect fair value for the initial and subsequent measurement for certain financial assets and liabilities on a contract-by-contract basis. Subsequent changes in fair value of these financial assets and liabilities would be recognized in earnings when they occur. SFAS 159 further establishes certain additional disclosure requirements. The adoption of SFAS 159 had no impact on the Company's financial condition and results of operations in 2008.

In December 2007, the SEC issued SAB No. 110. SAB 110 allows for the continued use of a simplified method, as discussed in SAB No. 107, in developing an estimate of expected term of plain vanilla share options in accordance with SFAS 123 (revised 2004). Originally the SEC staff stated in SAB 107 that it would not expect a company to use the simplified method for share option grants after December 31, 2007. Accordingly, the SEC staff will continue to accept, under certain circumstances, the use of the simplified method beyond December 31, 2007. The Company will continue to use of the simplified method for determining the value of options granted as allowed by SAB 110.

In December 2007, the FASB issued SFAS No. 141(R), *Business Combinations* (SFAS No. 141(R)) which establishes principles and requirements for how the acquirer of a business recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any noncontrolling interest in the acquiree. SFAS No. 141(R) also provides guidance for recognizing and measuring the goodwill acquired in the business combination and determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. The provisions of SFAS No. 141(R) are applicable to business combinations consummated on or after December 15, 2008 with early adoption prohibited. The adoption of SFAS 141(R) will have an impact on the Company's accounting for business combinations in connection with any future acquisitions.

In December 2007, the FASB issued SFAS No. 160, *Noncontrolling Interests in Consolidated Financial Statements - an amendment of ARB No. 51* (SFAS No. 160) which establishes accounting and reporting standards for the noncontrolling interest in a subsidiary for the deconsolidation of a subsidiary. SFAS No. 160 is effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim statements within those fiscal years. The Company does not currently have any noncontrolling interests.

In March 2008, the FASB issued SFAS No. 161, *Disclosures about Derivative Instruments and Hedging Activities*. (SFAS No.161) which amends and expands the disclosure requirements related to derivative instruments and hedging activities. The Statement requires qualitative disclosures about objectives and strategies for using derivatives, quantitative disclosures about fair value amounts of and gains and losses on derivative instruments, and disclosures about credit-risk-related contingent features in derivative agreements. The provisions of SFAS 161 are effective for the fiscal year beginning January 1, 2009. The company will comply with the disclosure requirements of this statement if it utilizes derivative instruments or engages in hedging activities upon its effectiveness.

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In October 2008, the FASB issued Staff Position No. FAS 157-3, *Determining the Fair Value of a Financial Asset When the Market for That Asset is Not Active* (FSP 157-3). FSP 157-3 clarifies the application of SFAS 157, which the Company adopted as of January 1, 2008, in cases where a market is not active. The adoption of FSP 157-3 had no impact on the Company's financial condition and results of operations in 2008.

NOTE B DISCONTINUED OPERATIONS

On May 22, 2007, the Company and ZOLL Data Systems, Inc. (ZOLL), a subsidiary of ZOLL Medical Corporation, entered into an Asset Purchase Agreement (the Purchase Agreement), pursuant to which ZOLL acquired substantially all of the assets related to the Company's Fire/EMS Services division (the Fire Segment or Fire).

At the closing of the sale, the Company received approximately \$1.8 million in cash, which represented the purchase price of \$7 million, less closing adjustments of approximately \$4.3 million, which was paid to the Senior Noteholder (see Note L), approximately \$450,000, which was paid to the leaseholder of the Company's premises, \$400,000, which was placed in escrow pursuant to the Purchase Agreement, and approximately \$40,000 credited to ZOLL on the assumption of certain liabilities.

During the period ended December 31, 2007, \$250,000 of the escrow balance was released to ZOLL. The remaining escrow balance was remitted to the Company on May 6, 2008. From the remaining balance, \$50,000 was paid as a settlement of a customer claim associated with the discontinued Fire Segment, and \$15,354 was paid as related professional fees to settle the claim, resulting in a loss on disposal of the Fire Segment of \$65,354 during 2008.

Prior to the sale, Fire had been reported as a separate segment. The Company sold its Fire Segment to better focus on its core lines of business. The Fire Segment has been reported as a discontinued operation in accordance with SFAS No. 144, *Accounting for the Impairment or Disposal of Long-Lived Assets*, and all periods presented have been recast accordingly to reflect these operations as discontinued.

Revenues and net income (loss) for the Fire Segment for the years ended December 31, 2008 and 2007 were as follows:

	Year Ended December 31,	
	2008	2007
Revenues		1,546,746
Net income (loss)		440,105

NOTE C ACQUISITIONS

Acquisition of Mobile Government

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On September 30, 2004, we acquired certain assets and assumed certain liabilities of the Mobile Government division of Aether Systems, Inc (Aether). The aggregate purchase price of the acquisition was \$12,198,171.

In conjunction with the acquisition of the Mobile Government division, the Company was required to place funds into escrow, which comprised of the following as at December 31:

	2008	2007
Escrow balance	\$	\$ 479,403

The escrow amounts represented funds available to Aether in the event the Company defaulted on the sublease

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agreement. The funds were made available for use by the company on termination of the lease in August 2008.

NOTE D CONCENTRATION OF RISK

Financial instruments and long-term contracts, which potentially subject the Company to risk, primarily consist of receivables and costs and earnings in excess of billings on uncompleted contracts. The Company extends credit to customers on an unsecured basis in the normal course of business. The Company's policy is to perform an analysis of the recoverability of its receivables and costs and earnings in excess of billings on uncompleted contracts at the end of each reporting period and to establish allowances where appropriate. The Company analyzes historical bad debts and contract losses, customer concentrations, and customer credit-worthiness when evaluating the adequacy of the allowances.

The Company had certain customers whose revenue individually represented 10% or more of the Company's total revenue, as follows:

	Years Ended December 31,	
	2008	2007
Customer A	15%	

The Company had concentrations of customers in certain industry groups which represented 10% or more of the Company's total revenue, as follows:

	Years Ended December 31,	
	2008	2007
Government	74%	91%
Commercial	26%	*

* Less than 10% of total revenue

The Company had certain customers whose accounts receivable balances individually represented 10% or more of the Company's total accounts receivable, as follows:

	Years Ended December 31,	
	2008	2007
Customer B	11%	
Customer C	23%	*
Customer D		25%

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Customer E

12%

* Less than 10% of total accounts receivable

The Company had certain customers whose balance of costs and earnings in excess of billings on uncompleted contracts individually represented 10% or more of the Company's total costs and earnings in excess of billings on uncompleted contracts, as follows:

	Years Ended December 31,	
	2008	2007
Customer D	100%	100%

Table of Contents**NOTE E COSTS AND EARNINGS IN EXCESS OF BILLINGS ON UNCOMPLETED CONTRACTS**

The components of uncompleted contracts consisted of the following as of December 31:

	2008		2007
Cost and earnings incurred on uncompleted contracts	\$ 7,483,122	\$	7,338,571
Less billings to date	(7,338,571)		(7,104,766)
	\$ 144,551	\$	233,805
Costs and earnings in excess of billings on uncompleted contracts	\$ 144,551	\$	233,805
Billings in excess of costs and earnings on uncompleted contracts			
	\$ 144,551	\$	233,805

NOTE F PREPAID EXPENSES

Prepaid expenses consisted of the following as of December 31:

	2008		2007
Insurance and software licenses	\$ 92,909	\$	113,968
Other	3,200		5,100
Total	\$ 96,109	\$	119,068

NOTE G EQUIPMENT AND LEASEHOLD IMPROVEMENTS

Equipment and leasehold improvements consisted of the following as of December 31:

	2008		2007
Equipment	\$ 555,792	\$	517,658
Furniture and fixtures	148,517		187,984
Software	136,355		136,355
Leasehold improvements	198,889		198,889

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	1,039,553	1,040,886
Less accumulated depreciation and amortization	(947,315)	(863,604)
Total	\$ 92,238	\$ 177,282

Table of Contents**NOTE H OTHER ASSETS***Goodwill*

The changes in the carrying amount of goodwill for the years ended December 31, 2008 and 2007, were as follows:

	Law Segment		Fire Segment		Total
Balance as of January 1, 2007	\$	7,836,986	\$	3,552,668	\$ 11,389,654
Goodwill included in gain on disposal of reporting unit				(3,552,668)	(3,552,668)
Balance as of December 31, 2007	\$	7,836,986	\$		\$ 7,836,986
Additions/subtractions					
Balance as of December 31, 2008	\$	7,836,986	\$		\$ 7,836,986

Intangible Assets

Intangible assets consisted of the following as of December 31:

	2008			2007		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Copyrighted software	\$ 1,181,429	\$ (1,122,357)	\$ 59,072	\$ 1,181,429	\$ (886,071)	\$ 295,358
Customer relationships	617,271	(524,679)	92,592	617,271	(401,225)	216,046
Trademarks	807,872	(724,673)	83,199	807,872	(563,099)	244,773
Developed technology	434,353	(369,201)	65,152	434,353	(282,330)	152,023
Marketing agreements	605,340	(575,073)	30,267	605,340	(454,005)	151,335
Patents and patents pending	298,059	(45,640)	252,419	298,059	(33,325)	264,734
Total	\$ 3,944,324	\$ (3,361,623)	\$ 582,701	\$ 3,944,324	\$ (2,620,055)	\$ 1,324,269

Aggregate amortization expense for the year ended December 31, 2008 and 2007, was \$741,568 and \$761,258 respectively.

Deferred financing costs

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Deferred financing costs are amortized based upon the lives of the respective debt obligations. Due to the repayment of all convertible debt during the 2007 year, the net book value of the associated deferred financing costs was written off to Loss on Extinguishment of Debt (see Note Q).

Amortization of deferred financing costs prior to the repayment of convertible debt was included in interest expense, and was \$83,871 for the year ended December 31, 2007.

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Deposits consisted of the following as of December 31:

	2008	2007
Lease deposit with Aether	\$ 7,812	\$ 479,403
Property deposits	7,812	8,412
Total	\$ 7,812	\$ 487,815

Lease and property deposits are held over the Company's premises as security for contractual performance under certain operating leases. At the conclusion of these lease arrangements, which is expected to occur over a number of dates through August 2009, the lease and property deposits shall be returned to the Company.

Restricted cash

During the 2008 year, the Company extended its property lease at the Marlborough, MA location. Pursuant to the agreement BIO-key was to maintain a security deposit in the form of an irrevocable letter of credit in the amount of \$40,500. However, BIO-key and the landlord for the property subsequently agreed to have BIO-key place the funds in a third party escrow account, to be returned at the conclusion of the lease term, in August 2011. The escrow is recorded as the non-current asset, restricted cash as at December 31, 2008.

NOTE I ACCRUED LIABILITIES

Accrued liabilities consisted of the following as of December 31:

	2008	2007
Contract costs not yet invoiced by vendors	\$ 105,788	\$ 2,185,610
Compensation	136,620	140,314
Compensated absences	383,454	367,731
Royalties	267,400	371,158
Interest	176,083	176,083
Other	232,544	160,853
Total	\$ 1,301,889	\$ 3,401,749

NOTE J RELATED PARTY

Consulting Arrangement with Thomas J. Colatosti

In connection with his appointment to the Board of Directors in September 2002, and as acting Chief Financial Officer in November 2008, the Company entered into a number of consulting arrangements with Thomas J. Colatosti. Under the most recent arrangement, which was entered into on November 17, 2008, Mr. Colatosti serves as acting Chief Financial Officer at a rate of \$12,500 per month from October 15, 2008.

Mr. Colatosti has substantial experience in the biometric industry and in addition to his role as the Chairman of the Board of Directors of the Company, provides extensive service to the Company in the areas of strategic planning and corporate finance. During the year ended December 31, 2008, the Company paid Mr. Colatosti approximately \$37,500.

Table of Contents**NOTE K DEFERRED REVENUE**

The components of Deferred Revenue are as follows as of December 31:

	2008	2007
Current Portion		
Maintenance contracts	\$ 3,195,547	\$ 3,638,988
Fully deferred systems, installation and acceptance revenue	488,929	829,760
	3,684,476	4,468,748
Long-Term Portion		
Maintenance contracts	8,382	34,518
Total	\$ 3,692,858	\$ 4,503,266

Maintenance contracts include provisions for unspecified when-and-if available product updates and customer telephone support services, and are recognized ratably over the term of the service period. Fully deferred systems, installation and acceptance revenue relates to projects that have been billed per the contractual terms, however because of undelivered elements or acceptance criteria, revenue has not yet been recognized. These amounts are expected to be completed within the next 12 months and are classified as current liabilities.

Long-term maintenance contracts are recognized ratably over the applicable term. The term for these contracts begin upon the completion and acceptance of the long-term projects, which can be delayed based on various criteria ranging from customer constraints to project change orders. Because of the uncertainty of the timing of acceptance on these long-term projects this deferred revenue has been classified as a long-term liability.

NOTE L NOTES PAYABLE, CONVERTIBLE DEBT FINANCING / WARRANTS*Notes Payable*

Note Payable consisted of the following as of December 31:

	2008	2007
Notes payable	\$ 1,516,651	\$

On July 28, 2008, the Company entered into a Settlement and Mutual Release Agreement (the Settlement Agreement) with a vendor in order to resolve all matters relating to invoices totaling approximately \$2,350,000 that the Company received in January 2008 for materials that had been

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delivered by the vendor, as a subcontractor on a long-term project for which the Company had served as the prime contractor. Pursuant to the Settlement Agreement, the parties agreed to a payment schedule under which the Company will be required to satisfy this outstanding balance, plus interest at seven percent (7%) per annum on the unpaid portion of the balance, in full on or before June 1, 2009. In return, the vendor agreed to forbear from exercising any of its rights and remedies against the Company with respect to these amounts so long as the Company remains in compliance with its obligations under the Settlement Agreement.

Table of Contents*Convertible Debt Financing/Warrants*

Long-term obligations consisted of the following as of December 31:

	2008	2007
2004		
FMV of warrants	\$ 291	\$ 11,663
2005		
FMV of warrants	6,666	34,644
2006		
FMV of warrants	5,360	18,213
Total	\$ 12,317	\$ 64,520

*Senior Convertible Term Notes***2004 and 2005 Senior Notes**

On September 29, 2004, we entered into a Securities Purchase Agreement (the "2004 Senior Purchase Agreement") with Laurus Master Fund, Ltd. ("Laurus") to issue secured convertible term notes in the aggregate principal amount of \$5,050,000. On June 8, 2005, we entered into a second Securities Purchase Agreement (the "2005 Senior Purchase Agreement") with Laurus to issue secured convertible term notes in the aggregate principal amount of \$2,000,000.

On May 22, 2007, the Company used approximately \$4,300,000 of the net cash proceeds received in connection with the sale of the Fire Segment (see Note B) to repay in full its obligations to Laurus under the 2004 and 2005 Senior Notes.

The account balance shown represents the fair market value of warrants issued in conjunction with debt offerings undertaken from the 2004 to 2006 fiscal years. The Warrants are classified as liabilities and were valued as of December 31, 2008 and 2007, using the Black Scholes Option Pricing model with the following assumptions:

	Year ended December 31,	
	2008	2007
Dividend Yield	0%	0%
Annual volatility	112-121%	84-92%
Risk-free interest rate	0.32-0.78%	3.0-4.0%

2004 and 2005 Senior Note Derivatives and Discounts

The 2004 and 2005 Senior Notes contained features that were considered embedded derivative financial instruments, such as: Principal's conversion option, Monthly Payments Conversion Option, Interest Rate Adjustment provision, and the Default provision. These features were bifurcated and recorded on the Company's balance sheet at their fair value.

Following the repayment of the 2004 and 2005 Senior Notes on May 22, 2007, the value of the embedded derivatives and amortized discounts related to the Notes were written off to Loss on Extinguishment of Debt (see Note Q).

Conversion of Default Interest Payable on 2004 and 2005 Senior Notes

With respect to the convertible notes issued in 2004 and 2005, the Company was required to make interest payments or issue registered shares in lieu of interest payments on a monthly basis.

Due to the previous defaults on Senior and Subordinated Notes held by the Company, obligations totaling \$622,765 were accrued in prior periods. Effective April 18, 2007, the Company entered into an agreement with Laurus to satisfy these default interest obligations in full by issuing shares of the Company's restricted common stock to Laurus. This agreement

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was subject to a condition that the Company would consummate a business transaction on or before May 18, 2007, or such later date as the parties agreed, which would raise sufficient proceeds to repay all of the Company's obligations under the 2004 and 2005 Senior Notes, as noted above.

On May 22, 2007, in accordance with the agreement with Laurus, the Company converted the balance of the default interest payable into shares of restricted common stock.

NOTE M SEGMENT INFORMATION

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The Company's consolidated operations are divided into two segments: Law and Biometric. The Company evaluates performance and allocates resources based on revenues and operating income (loss). Operating income (loss) for each segment includes selling, general and administrative expenses directly attributable to the segment in addition to those allocated as a percentage based on the segment's budgeted revenues. The segmentation of operating income (loss) as noted above and detailed below reflects how management evaluates its business. Assets for the Company are commingled and are related to all operating segments. Management does not evaluate or identify the operating assets of the segments separately.

Prior to the sale of the Fire business in May 2007, Fire had been reported as a separate segment. Prior periods presented have been recast accordingly to reflect these operations as discontinued. Geographically, North American sales accounted for approximately 99% and 100% of the Company's total sales for fiscal years 2008 and 2007, respectively.

Summarized financial information concerning our reportable segments is shown in the following table:

	For the Years Ended December 31,	
	2008	2007
Revenue:		
Law	\$ 9,496,505	\$ 9,073,200
Biometrics	3,379,542	915,256
Consolidated Revenue	12,876,047	9,988,456
Segment operating income/(loss)		
Law	(585,929)	(3,610,922)
Biometrics	684,121	(1,754,060)
Total Segment Operating Income/(loss)	98,192	(5,364,982)
Reconciliation to net income/(loss)		
Interest income	1,339	3,097
Interest expense	(92,520)	(832,457)
Derivative and warrant fair value adjustments	93,059	1,016,845
Investment income	119,348	
Loss on extinguishment of debt		(403,940)
Other income/(expense)	(34,885)	12,102
Net income/(loss) from continuing operations	86,341	(5,569,335)
Income from discontinued operations		440,105
Gain/(loss) on disposal of discontinued operations	(65,354)	4,072,006
Net income/(loss)	\$ 119,179	\$ (1,057,224)

NOTE N COMMITMENTS AND CONTINGENCIES

Operating Leases

The Company does not own any real estate but conducts operations from four leased premises. These non-cancelable operating leases expire at various dates through 2014. In addition to base rent, the Company pays for property taxes,

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maintenance, insurance and other occupancy expenses according to the terms of the individual leases. The Company also leases equipment, with a non-cancelable operating lease expiring in 2010.

In connection with the Company's acquisition of AMG in 2004, the Company entered into a sub-lease with Aether, which required monthly lease payments in excess of existing market rates. Rent expense was recorded at the market rate and charged on a straight-line basis through August 31, 2008, the termination date of the lease.

Minimum rental commitments of non-cancelable operating leases are approximately as follows:

Years ending December 31,		
2009	\$	402,091
2010		422,816
2011		320,736
2012		99,615
2013		99,615
More than 5 years		74,712
	\$	1,419,585

Rental expense was approximately \$786,000 and \$942,000 during 2008 and 2007, respectively.

Employment Agreements

The Company has employment agreements with four employees. These agreements allow the continuation of the employee's salary in the event of termination without cause. The agreements also acknowledge the employee's eligibility to participate in the Company's bonus and option plans, the terms of which have not yet been established. As of December 31, 2008, the aggregate commitment under these agreements was approximately \$524,000.

Legal Proceedings

In the normal course of business, the Company periodically becomes involved in litigation. As of December 31, 2008, in the opinion of management, the Company had no pending litigation that would have a material adverse effect on the Company's financial position, results of operations or cash flows.

On February 2, 2009, Longview Special Finance, Inc. and Longview Fund, L.P. (the Plaintiffs) filed a complaint against the Company in the United States District Court for the Southern District of New York entitled Longview Special Finance, Inc. and Longview Fund, L.P.v. BIO-key

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International, Inc., in which the Plaintiffs are seeking \$2,915,950 in damages and an unspecified amount of interest and attorney's fees from the Company as a result of the Company's alleged improper failure to redeem the outstanding shares of Series B Convertible Preferred Stock and Series C Convertible Preferred Stock held by the Plaintiffs. The Company has not accrued any significant additional liabilities as a result of this matter as the Company believes that it has meritorious defenses and it intends to defend against these claims vigorously. See also Note X to these Financial Statements.

Accrued Royalties

From time to time, the Company licenses or sells products which may include technology obtained from third parties under a royalty agreement. These agreements obligate the company to pay the third party a fixed fee, or in some instances, a percentage of the associated revenue. The fees are generally due and payable only when software has been installed and accepted by the customer. For the years ended December 31, 2008 and 2007, royalty expense was approximately \$51,000 and \$102,000, respectively.

Liquidated Damages

The Company may have to pay liquidated damages to customers in certain circumstance, including instances where its sub-contractors do not perform on time. In addition, the Company sometimes indemnifies certain of its customers against damages, if any, they might incur as a result of a claim brought against them related to third party software embedded in the Company's products.

The Company's most significant exposure to liquidated and other damages is with its largest contract with Hamilton County, Ohio (Hamilton). The Hamilton contract limits the Company's liability for damage to approximately \$10,000,000. Management believes the contract was completed within the agreed contract term, including defined specifications for performance, and accordingly, payment of damages under the contract is not likely. However, the project is under warranty until February 2009, and there can be no assurance damages will not be incurred during the remainder of the warranty period. If damages are incurred there can be no assurance that any amounts required to be paid will not be material to the financial statements.

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Warranty Reserve

In some instances the Company may make commitments to provide additional products or services to customers beyond those obligations specified in the contract or those provided in standard maintenance agreements or ordinary upgrades. These commitments usually arise in complex customer installations and are granted to help ensure customer satisfaction. As of December 31, 2008, there was no material requirement for an accrued warranty liability reserve.

NOTE O EQUITY

1. Mezzanine Equity

Redeemable Preferred Stock

Series B Convertible Preferred Stock

The Company issued 1,000,000 shares of redeemable Series B Convertible Preferred Stock on February 23, 2006, upon the conversion of the 2006 Convertible Notes. Each share of Series B preferred stock has an Original Issue Price of \$1.00 per share. The holder has the option to redeem the shares of Series B preferred stock at any time for a number of shares of the Company's common stock equal to the Original Issue Price plus accumulated and unpaid dividends divided by the fixed conversion price of \$0.30 per share of Common Stock. The conversion price is subject to adjustment if common stock is issued by the Company subsequent to the original issue date of the Series B preferred stock, except for other conversions, options, warrants, dividends paid in stock or pursuant to an acquisition by the Company, at a price less than the conversion price. Mandatory conversion of all Series B shares will be automatic if, for the 30 trading days prior to January 1, 2009, the average closing bid price for one share of common stock is at least \$1.10. The shares shall be converted at the conversion price then in effect. If the average bid price for the 30 trading days prior to January 1, 2009 per common share is less than \$1.10 the Company shall mandatorily redeem all remaining outstanding Series B preferred stock by paying cash equal to \$1.00 per share with all accrued and unpaid dividends. The Company may, at its election, redeem any or all of the remaining outstanding Series B shares in cash at a conversion price equal to \$1.20 per share, together with all accrued and unpaid dividends upon giving 30 day notice. Holders of the Series B preferred stock are entitled to cumulative, prior and in preference to holders of common stock dividends equal to 15% per annum of the Original Purchase Price still outstanding, payable quarterly commencing April 1, 2006. In any liquidation of the Company, each share of preferred stock is entitled to a liquidation preference on a pari passu basis with the Series A and Series C Preferred stock before any distribution may be made on the Company's common stock. See also Note X to these Financial Statements.

As of December 31, 2008 and 2007, 1,000,000 preferred stock shares were authorized, 970,612 of which were issued and outstanding, at a par value of \$0.0001 and a liquidation preference of \$1.00 with accumulated dividends in arrears of \$37,207, which have been accreted to the principal balance of the Series B preferred stock.

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The Preferred Stock contains features that are considered embedded derivative financial instruments: Preferred Stock's conversion option: The Preferred Stock is convertible at the Holder's option at any time at the fixed conversion price of \$0.30 per share; Quarterly Dividends Conversion Option: Holders have the option to convert the Stock's quarterly dividend payment at a conversion price of the average 10 days closing price prior to the dividend record date. These features have been bifurcated and recorded on the Company's balance sheet as liabilities, at their fair value.

As of December 31, 2008 and 2007, the derivatives were valued at \$111 and \$6,005, respectively.

An amount equal to the original value of the derivatives was recorded as a discount to the Preferred Stock. The discount is being accreted to the principal balance of the Preferred Stock, using the effective interest method, over the expected term of the term of the Preferred Stock. At December 31, 2008 and 2007, the unamortized discount on the Preferred Stock was \$0 and \$126,480, respectively.

Series C Convertible Preferred Stock

The Company issued 592,032 shares of redeemable Series C Convertible Preferred Stock on August 10, 2006, upon the

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exchange of certain 2004 and 2005 Subordinated Notes. Each share of Series C preferred stock has an Original Issue Price of \$10.00 per share. The holder has the option to redeem the shares of Series C preferred stock at any time for a number of shares of the Company's common stock equal to the Original Issue Price plus accumulated and unpaid dividends divided by the fixed conversion price of \$0.30 per share of Common Stock. The conversion price is subject to adjustment if common stock is issued by the Company subsequent to the original issue date of the Series C preferred stock, except for other conversions, options, warrants, dividends paid in stock or pursuant to an acquisition by the Company, at a price less than the conversion price. Mandatory conversion of all Series C shares will be automatic if, for the 30 trading days prior to January 1, 2009, the average closing bid price for one share of common stock is at least \$1.20. The shares shall be converted at the conversion price then in effect. If the average bid price for the 30 trading days prior to January 1, 2009 per common share is less than \$1.20 the Company shall mandatorily redeem all remaining outstanding Series C preferred stock by paying cash equal to \$10.00 per share with all accrued and unpaid dividends. The Company may, at its election, redeem any or all of the remaining outstanding Series C shares in cash at a conversion price equal to \$12.00 per share, together with all accrued and unpaid dividends upon giving 30 day notice. Holders of the Series C preferred stock are entitled to cumulative, prior and in preference to holders of common stock dividends equal to 15% per annum of the Original Purchase Price still outstanding, payable quarterly commencing September 1, 2006. In any liquidation of the Company, each share of preferred stock is entitled to a liquidation preference on a pari passu basis with the Series A and Series B Preferred stock before any distribution may be made on the Company's common stock. See also Note X to these Financial Statements.

As of December 31, 2008 and 2007, 600,000 preferred stock shares were authorized, 592,032 of which were issued and outstanding, at a par value of \$0.0001 and a liquidation preference of \$10.00 with accumulated dividends in arrears of \$575,728 and \$351,601, respectively, which have been accreted to the principal balance of the Series C preferred stock.

The Preferred Stock contains features that are considered embedded derivative financial instruments: Preferred Stock's conversion option: The Preferred Stock is convertible at the Holder's option at any time at the fixed conversion price of \$0.30 per share; Quarterly Dividends Conversion Option: Holders have the option to convert the Stock's quarterly dividend payment at a conversion price of the average 10 days closing price prior to the dividend record date. These features have been bifurcated and recorded on the Company's balance sheet as liabilities, at their fair value.

As of December 31, 2008 and 2007 the derivatives were valued at \$328 and \$35,290, respectively.

An amount equal to the original value of the derivatives was recorded as discount to the Preferred Stock. The discount is being accreted to the principal balance of the Preferred Stock, using the effective interest method, over the expected term of the term of the Preferred Stock. At December 31, 2008 and 2007, the unamortized discount on the Preferred Stock was \$0 and \$449,444, respectively.

Together with the above transaction, the terms of certain warrants held by the Company's investment bankers and their associates were modified. The incremental value of the modification was calculated to be \$110,453, and was allocated against the proceeds of the Series C Convertible Preferred Stock as a cost of financing, and will be accreted to the principal balance of the Preferred Stock, using the effective interest method, over the expected term of the term of the Preferred Stock. At December 31, 2008 and 2007, the net amount remaining to be accreted was \$0 and \$46,249, respectively.

2. Permanent Equity

Common Stock

The Company is authorized to issue 170,000,000 shares of common stock, \$.0001 par value per share, of which 67,876,880 and 61,153,202 were outstanding as of December 31, 2008 and 2007, respectively.

Holders of common stock have equal rights to receive dividends when, as and if declared by the Board of Directors, out of funds legally available therefor. Holders of common stock have one vote for each share held of record and do not have cumulative voting rights.

Holders of common stock are entitled, upon liquidation of the Company, to share ratably in the net assets available for distribution, subject to the rights, if any, of holders of any preferred stock then outstanding. Shares of common stock are not redeemable and have no preemptive or similar rights. All outstanding shares of common stock are fully paid and nonassessable.

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During the year ended December 31, 2008, preferred stockholders converted accumulated dividends of \$826,739 into 6,723,678 shares of the Company's common stock.

During the year ended December 31, 2007, preferred stockholders converted principal of \$29,388 and accumulated dividends of \$1,090,842 into 4,576,206 shares of the Company's common stock. In addition accrued default interest of \$622,765 on the 2004 and 2005 Senior Notes with Laurus was converted into 850,000 shares of restricted common stock, and convertible debt principle of \$150,000 was converted into 568,182 shares of common stock. The Company recorded a non-cash interest expense of approximately \$91,000, which represented the value of additional common shares issued to Laurus as consideration for exchanging convertible debt for equity instead of paying the outstanding principal payment in cash.

Series A Convertible Preferred Stock

Within the limits and restrictions provided in the Company's Certificate of Incorporation, the Board of Directors has the authority, without further action by the shareholders, to issue up to 5,000,000 shares of preferred stock, \$.0001 par value per share, in one or more series, and to fix, as to any such series, any dividend rate, redemption price, preference on liquidation or dissolution, sinking fund terms, conversion rights, voting rights, and any other preference or special rights and qualifications.

In March 2004, we designated 100,000 shares of preferred stock as Series C Convertible Preferred Stock. In connection with the Company's reincorporation in Delaware on January 1, 2005, each share of Series C Convertible Preferred Stock was automatically converted into one share of Series A Convertible Preferred Stock (the Series A Shares), of which 30,557 were issued and outstanding as at December 31, 2008 and 2007.

The Series A Shares accrue a cumulative annual dividend of 7% on the \$100 face amount of such shares payable June 15 and December 15 each year in shares of common stock. In the event of a liquidation, dissolution or winding up of the Company, the Series A shares have a liquidation preference of \$100 per share (plus all accrued and unpaid dividends thereon) prior to any payment or distribution to holders of our common stock. The Series A Shares are convertible into common stock at a conversion price of \$0.30 per share. The conversion price is subject to proportional adjustment in the event of stock splits, stock dividends or reclassifications. Subject to certain exceptions, in the event we issue additional shares of common stock at a purchase price less than the conversion price of the Series A Shares, the conversion price shall be lowered to such lesser price. In the event that the average closing bid price of our common stock is less than \$1.00 per share for thirty (30) consecutive trading days at any time after November 17, 2008, we will be required to redeem the Series A Shares by payment of \$100 per share plus all accrued and unpaid dividends due thereon. See also Note X to these Financial Statements.

We are required to obtain the consent of the holders of a majority of the Series A Shares in order to, among other things, issue any shares of preferred stock that are equal to or have a preference over the Series A shares or issue any shares of preferred stock, rights, options, warrants, or any other securities convertible into common stock of the Company, other than those issued to employees of the Company in the ordinary course of their employment or to consultants or other persons providing services to the Company so long as such issuances do not exceed 500,000 shares of common stock. We are also required to obtain such consent in order to, among other things, complete a sale or other disposition of any material assets, complete an acquisition of a material amount of assets, engage in a merger, reorganization or consolidation, or incur or guaranty any indebtedness in excess of \$50,000.

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As of December 31, 2008 and 2007, cumulative dividends in arrears related to the Series A preferred stock were approximately \$461,417 and \$243,953, respectively, which have been accreted to the principal balance of the Series A preferred stock.

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3. Warrants

The Company has issued warrants to certain creditors, investors, investment bankers and consultants. A summary of warrant activity is as follows:

	Total Warrants	Weighted average exercise price	Weighted average remaining life (in years)	Aggregate intrinsic value
Outstanding, as of December 31, 2007	10,566,375	\$ 0.95		
Granted				
Exercised				
Expired				
Outstanding, as of December 31, 2008	10,566,375	\$ 0.95	1.02	\$
Vested or expected to vest at December 31, 2008	10,566,375	\$ 0.95	1.02	
Exercisable at December 31, 2008	10,566,375	\$ 0.95	1.02	

The warrants outstanding and exercisable at December 31, 2008 were in the following exercise price ranges:

Range of exercise prices	Warrants outstanding and Exercisable Number of warrants	Weighted average remaining life (in years)
\$ 0.30	2,798,014	2.11
0.75	533,333	2.61
0.97	150,000	0.53
1.00	2,655,552	0.86
1.35	4,429,476	0.24
\$ 0.30-1.35	10,566,375	

As part of sale of the Fire Segment to ZOLL, and repayment of the Company's convertible debt, both in May 2007, the exercise price of certain warrants was adjusted to \$0.30 per share. The incremental fair value of the modification of \$33,817 was allocated to interest expense as a cost of financing.

NOTE P STOCK-BASED COMPENSATION

1996 Stock Option Plan

During 1996, the Board of Directors and stockholders of the Company adopted the 1996 Stock Option Plan (the 1996 Plan). Under the 1996 Plan, 750,000 shares of common stock are reserved for issuance to employees, officers, directors, and consultants of the Company at exercise prices which may not be below 100% of fair market value for incentive stock options and 50% for all others. The term of stock options granted may not exceed ten years. Options issued under the Plan vest

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pursuant to the terms of stock option agreements with the recipients. In the event of a change in control, as defined, all options outstanding vest immediately. The Plan expired in May 2005.

1999 Stock Option Plan

During 1999, the Board of Directors of the Company adopted the 1999 Stock Option Plan (the 1999 Plan). The 1999 Plan was not presented to stockholders for approval and thus incentive stock options are not available under the plan. Under the 1999 Plan, 2,000,000 shares of common stock are reserved for issuance to employees, officers, directors, and consultants of the Company at exercise prices which may not be below 85% of fair market value. The term of nonstatutory stock options granted may not exceed ten years. Options issued under the Plan vest pursuant to the terms of stock option agreements with the recipients. In the event of a change in control, as defined, all options outstanding vest immediately. The 1999 Plan expires in August 2009.

2004 Stock Option Plan

On October 12, 2004, the Board of Directors of the Company approved the 2004 Stock Option Plan (the 2004 Plan). The 2004 Plan has not yet been presented to stockholders for approval and thus incentive stock options are not available under this plan. Under the terms of this plan, 4,000,000 shares of common stock are reserved for issuance to employees, officers, directors, and consultants of the Company at exercise prices which may not be below 85% of fair market value. The term of stock options granted may not exceed ten years. Options issued under the Plan vest pursuant to the terms of stock option agreements with the recipients. In the event of a change in control, as defined, all options outstanding vest immediately. The Plan expires in October 2014.

Non-Plan Stock Options

Periodically, the Company has granted options outside of the 1996, 1999, and 2004 Plans to various employees and consultants. In the event of change in control, as defined, certain of the non-plan options outstanding vest immediately.

Stock Option Activity

Information summarizing option activity is as follows:

	Number of Options					Weighted average exercise price	Weighted average remaining life (in years)	Aggregate intrinsic value
	1996 Plan	1999 Plan	2004 Plan	Non Plan	Total			

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Outstanding, as of December 31, 2007	80,000	805,000	2,221,415	3,943,000	7,049,415	\$ 0.85	
Granted			759,272		759,272		0.13
Exercised							
Forfeited			(27,336)		(27,336)		0.63
Expired		(470,000)	(115,410)	(188,000)	(773,410)		0.84
Outstanding, as of December 31, 2008	80,000	335,000	2,837,941	3,755,000	7,007,941	0.78	3.31
Vested or expected to vest at December 31, 2008					6,850,050	0.79	3.24
Exercisable at December 31, 2008					6,297,071	0.84	3.02

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The options outstanding and exercisable at December 31, 2008 were in the following exercise price ranges:

Range of exercise prices	Number of shares	Options Outstanding		Options Exercisable	
		Weighted average exercise price	Weighted average remaining life (in years)	Number exercisable	Weighted average exercise price
\$ 0.11-0.21	826,272	\$ 0.13	6.31	299,603	\$ 0.11
0.22-0.40	601,000	0.34	1.45	567,330	0.34
0.41-0.68	1,746,000	0.58	2.90	1,595,469	0.58
0.69-1.11	2,163,169	0.90	3.66	2,163,169	0.90
1.12-1.62	1,671,500	1.30	2.48	1,671,500	1.30
\$ 0.11-1.62	7,007,941			6,297,071	

The aggregate intrinsic value in the table above represents the total intrinsic value, based on the Company's closing stock price of \$0.05 as of December 31, 2008, which would have been received by the option holders had all option holders exercised their options as of that date. The total number of in-the-money options exercisable as of December 31, 2008 was 0.

The weighted average fair value of options granted during the years ended December 31, 2008 and 2007 was \$0.10 and \$0.13 per share, respectively. The total intrinsic value of options exercised during the years ended December 31, 2008 and 2007 was \$0. The total fair value of shares vested during the years ended December 31, 2008 and 2007 was \$521,831 and \$754,050 respectively.

As of December 31, 2008 future compensation cost related to nonvested stock options is approximately \$96,415 and will be recognized over an estimated weighted average period of approximately 0.8 years.

NOTE Q EXTINGUISHMENT OF DEBT

On May 22, 2007, the Company used approximately \$4,300,000 of the net cash proceeds received in connection with the sale of the Fire Segment (see Note B) to repay in full its obligations to Laurus under the 2004 and 2005 Senior Notes.

In accordance with the Emerging Issues Task Force of the FASB No. 96-19, Debtor's Accounting for Modification or Exchange of Debt Terms (EITF 96-19), and Accounting Principles Board Opinion No. 26, Early Extinguishment of Debt (APB 26), the Company treated the above transaction as an extinguishment of debt, and recorded a non-operating loss on extinguishment of debt of \$403,940.

NOTE R INCOME TAXES

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On January 1, 2007, the Company adopted the provisions of Financial Accounting Standards Board Interpretation No. 48 Accounting for the Uncertainty in Income Taxes - an interpretation of FASB Statement No. 109 (FIN No. 48). FIN No. 48 requires that the impact of tax positions be recognized in the financial statements if they are more likely than not of being sustained based on the technical merits of the position. The Company has a valuation allowance against the full amount of its net deferred taxes. The Company currently provides a valuation allowance against deferred taxes when it is more likely than not that some portion, or all of its deferred tax assets will not be realized.

As a result of the implementation of FIN No. 48, the Company reduced its deferred tax assets and the associated valuation allowance for gross unrecognized tax affected benefits by approximately \$4,100,000. There was no adjustment to accumulated deficit as a result of these unrecognized tax benefits since there was a full valuation allowance against the related deferred tax assets. If these unrecognized tax benefits are ultimately recognized, they would have no impact on the effective tax rate due to the existence of the valuation allowance.

The Company has not been audited by the Internal Revenue Service (IRS) or any states in connection with income taxes. The Company files income tax returns in the U.S. federal jurisdiction and various state jurisdictions. The periods from

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2002-2008 remain open to examination by the IRS and state jurisdictions. The Company believes it is not subject to any tax risk beyond the preceding discussion. The Company's policy is to recognize interest and penalties accrued on any unrecognized tax benefits as a component of income tax expense. As of the date of adoption of FIN No. 48, the Company did not have any accrued interest or penalties associated with any unrecognized tax benefits, nor was any significant interest expense recognized during the years ended December 31, 2008 and 2007.

The Company has deferred taxes due to income tax credits, net operating loss carryforwards, and the effect of temporary differences between the carrying values of certain assets and liabilities for financial reporting and income tax purposes. Significant components of deferred taxes are as follows at December 31:

	2008	2007
Current asset:		
Accrued compensation	\$ 172,000	\$ 168,000
Accounts receivable allowance	32,000	45,000
Non-current asset:		
Basis differences in fixed assets	68,000	(92,000)
Basis differences in intangible assets	573,000	456,000
Accrued interest and other	79,000	70,000
Income tax credits	1,680,000	1,459,000
Net operating loss carryforwards	15,350,000	15,548,000
Valuation allowances	(17,954,000)	(17,654,000)
	\$	\$

As of December 31, 2008 the Company has federal and state net operating loss carryforwards of approximately \$42,305,000 and \$18,293,000, respectively, subject to expiration between 2010 and 2028.

These net operating loss carryforwards are subject to the limitations under Section 382 of the Internal Revenue Code due to changes in the equity ownership of the Company.

A valuation allowance equal to the full amount of the deferred tax assets has been recorded due to the uncertainty of realization of the deferred tax assets due to operating loss history of the Company. The valuation allowance could be reduced or eliminated based on future earnings and future estimates of taxable income. Similarly, income tax benefits related to stock options exercised have not been recognized in the financial statements.

A reconciliation of the effective income tax rate on operations reflected in the Statements of Operations to the US Federal statutory income tax rate is presented below.

	2008	2007
US Federal statutory income tax rate	34%	(34)%

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State taxes, net	0	0
Permanent differences	229	8
Temporary differences	(46)	1
Change in valuation allowance	(217)	25
Effective tax rate	0%	0%

NOTE 5 FAIR VALUES OF FINANCIAL INSTRUMENTS

The Company's derivative financial instruments as at December 31, 2008 and 2007 consisted of embedded derivatives related to the Series B and Series C Convertible Preferred Stock. These embedded derivatives include certain conversion features on preferred principal and accumulated and unpaid dividends. The Company also issued warrants to purchase shares